# Order of Operations Worksheet

Solve in the correct order.

| | |
|---|---|
| **1 a.** $7 - 3 \cdot 1^2$ | **1 b.** $\frac{7}{4} + \frac{6+2}{10}$ |
| **2 a.** $\frac{6}{8-5} + \frac{8}{2}$ | **2 b.** $6 \cdot 6 + 5 + 5^2$ |
| **3 a.** $4^3 - 7$ | **3 b.** $3^3 \cdot 5$ |
| **4 a.** $10 + 4 \cdot 3 - (2 - 1)$ | **4 b.** $4 - \frac{2 \cdot 4}{6}$ |

# BRAIN TEASERS

**1.** Emily loves cats and she keeps some as pets. All but two of them are completely black. All but two of them are completely white. All but two of them are completely ginger.

How many cats does she have in total ?

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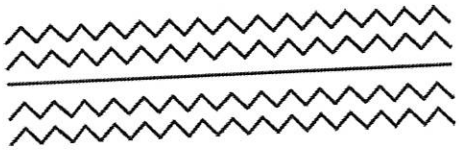
**2.** A family of five people drove in a car for 300 miles at an average speed of 50 miles per hour. For the whole journey nobody noticed that the car had a flat tyre.

How come nobody noticed?



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**3.** Try to re-arrange the letters of **NEW DOOR** to make one word.

---

**4.** A school orchestra with six musicians can play the first section of Beethoven's 5th symphony in 7 minutes and 23 seconds.

How long would it take to play if they doubled the number of musicians?

---

**5.** Tom owns an antique grandfather clock made in the year 1877.

How long is it designed to go without winding?

---

**6.** Emma was running in a 5 mile marathon. With the end in sight she sprinted past Chloe who was in second place and triumphantly crossed the finish line.

Why didn't Emma win the marathon?

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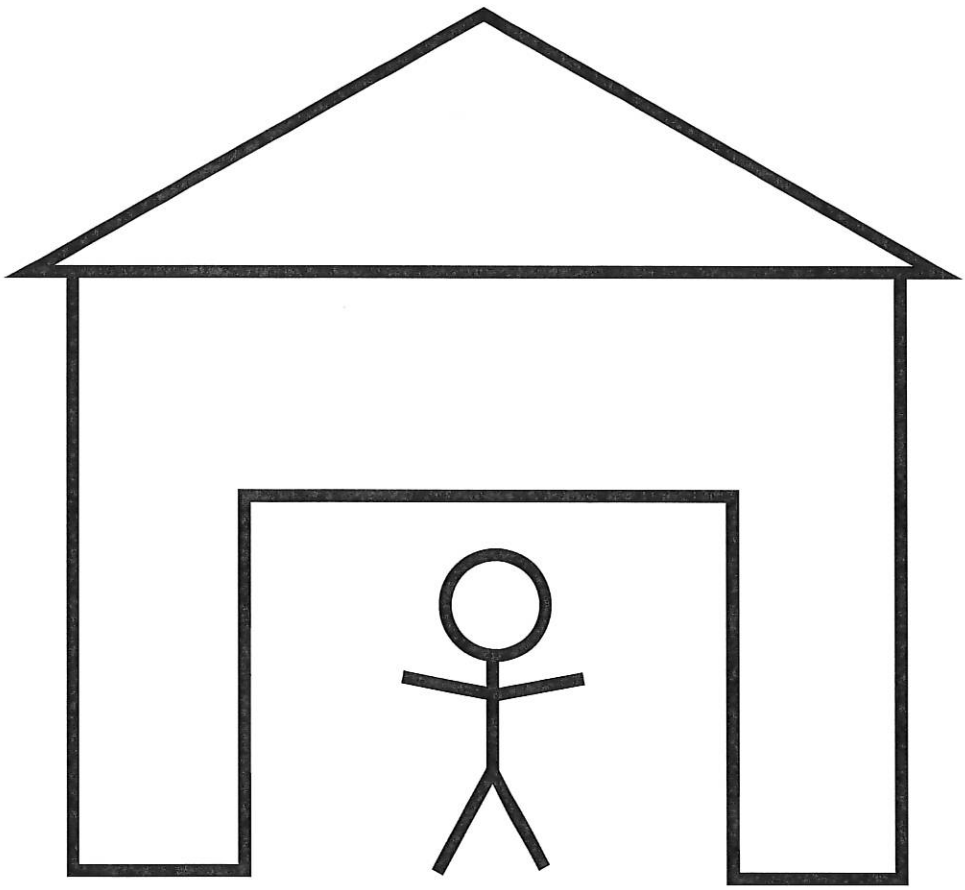
**Can you copy the image below without ever lifting your pen from the paper?**
**( it *is* possible! )**



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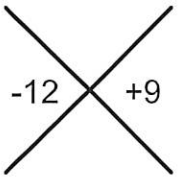
# Diamond Math Problems

Name: _____ Date: _____

Complete the diamond problems. The top cell contains the *product* of the numbers in the left and right cells, while the bottom cell contains the *sum.*

( 1 )

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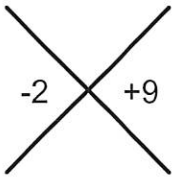


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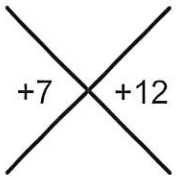


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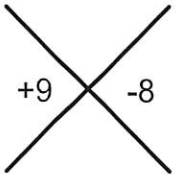


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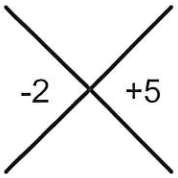


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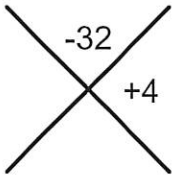


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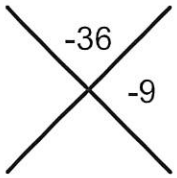


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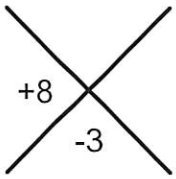


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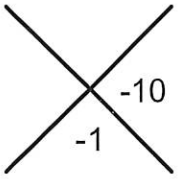


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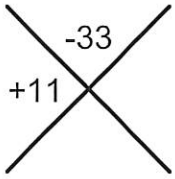


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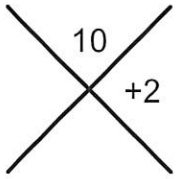


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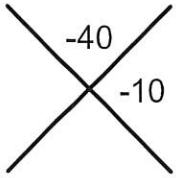


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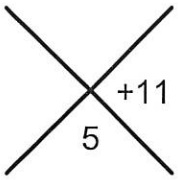


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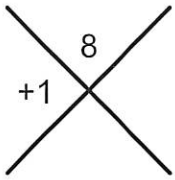


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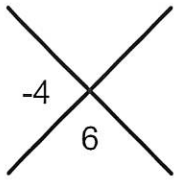


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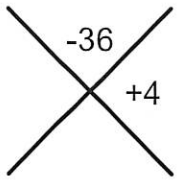


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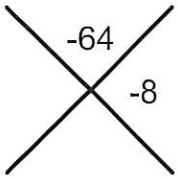


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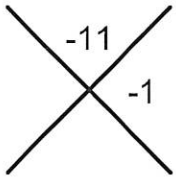


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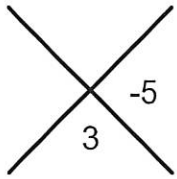


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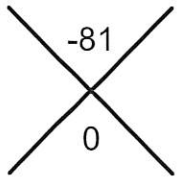


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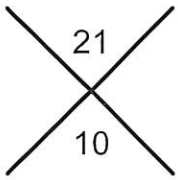


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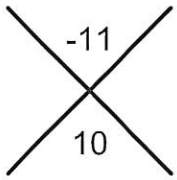


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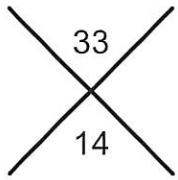


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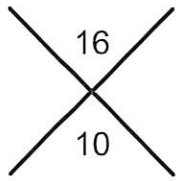


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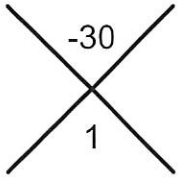


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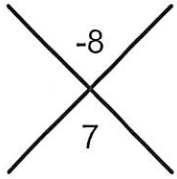


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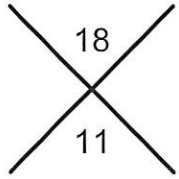


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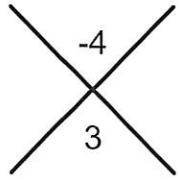


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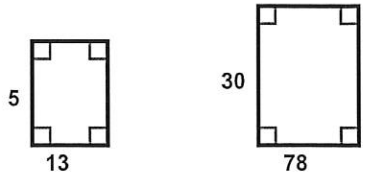
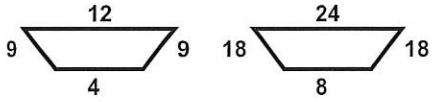
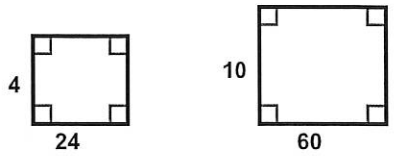
# Similar Polygons

**Determine whether the polygons are similar.**

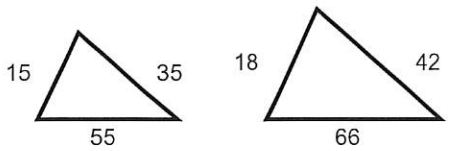
1)

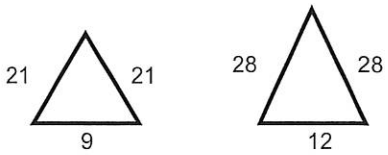

2) 

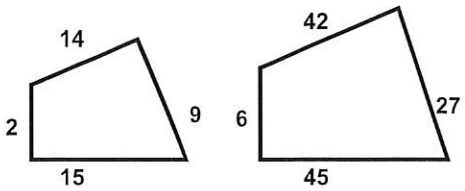

3) 

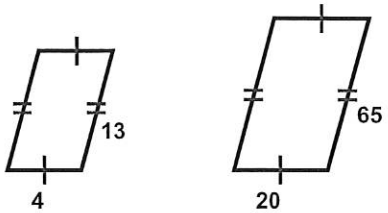

4) 


**Each polygon pair is similar. Find the scale factor of the smaller shape to the biggest shape.**

5) 


6) 


7) 


8) 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# Solving Proportions

**Solve each problem. Leave answer as fraction in simplest form.**

1) $\frac{b}{9} = \frac{8}{11}$

2) $\frac{2}{9} = \frac{y}{26}$

3) $\frac{n}{6} = \frac{5}{23}$

4) $\frac{28}{8} = \frac{3}{r}$

5) $\frac{3}{7} = \frac{d}{16}$

6) $\frac{f}{5} = \frac{2}{10}$

7) $\frac{2}{5} = \frac{s}{7}$

8) $\frac{13}{8} = \frac{1}{x}$

9) $\frac{6}{9} = \frac{8}{z}$

10) $\frac{6}{v} = \frac{7}{11}$

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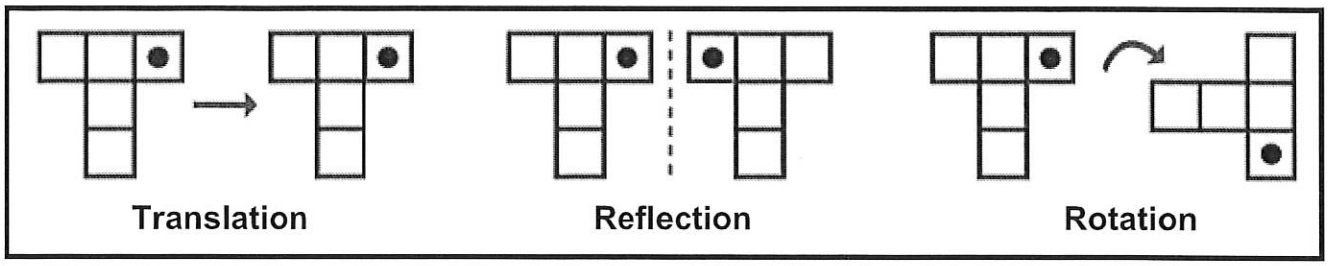
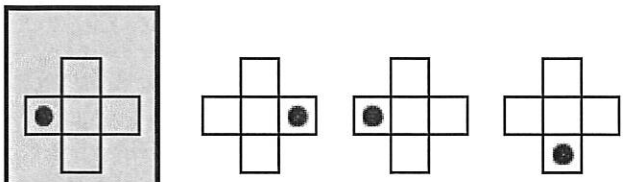
## Translation, Rotation, and Reflection




Identify each shape as translation, rotation, and reflection.

1 )



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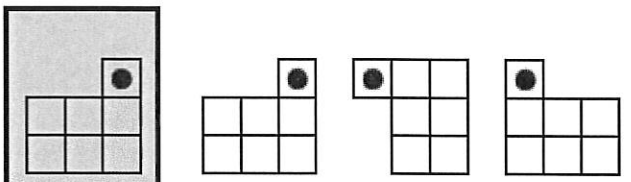

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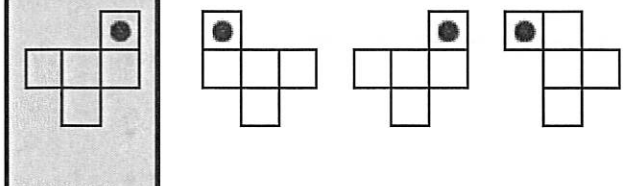

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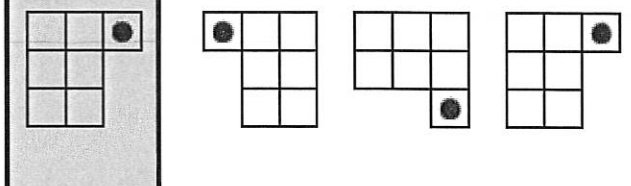

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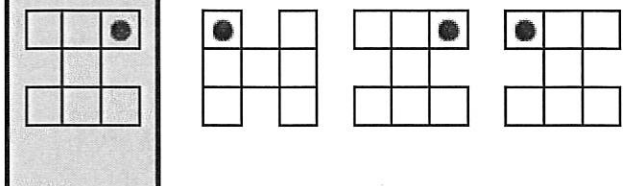

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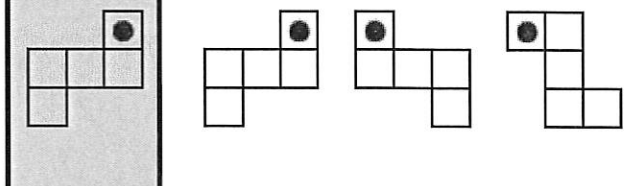

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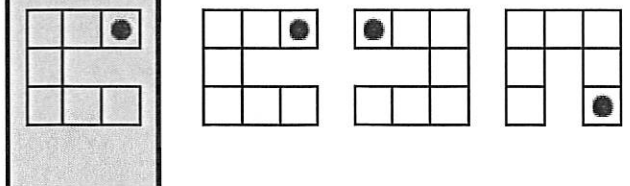

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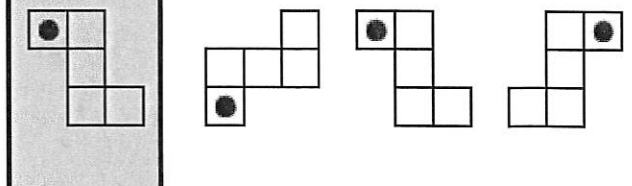

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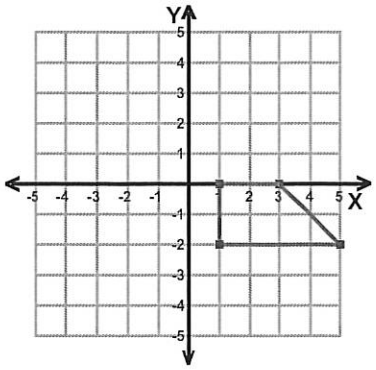
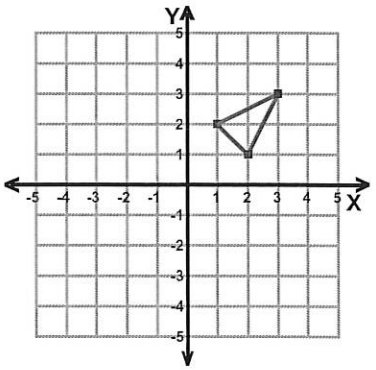
# Transformations

**ccw = counterclockwise**

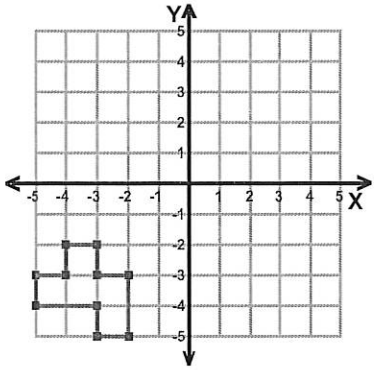
1) Reflection: Across the line x = 1



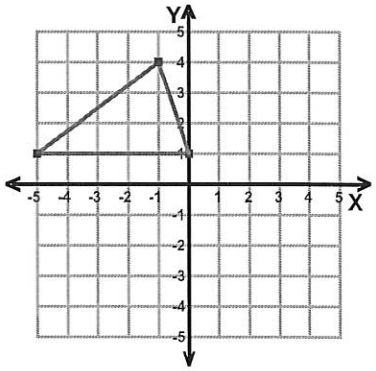

2) Rotation: 90° ccw about the origin



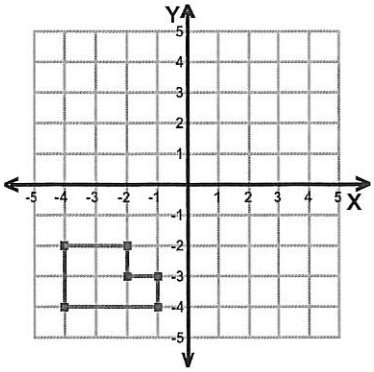

3) Translation: 3 right and 3 up



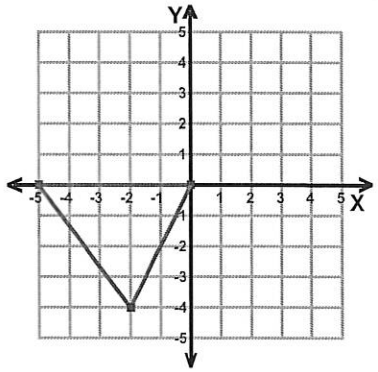

4) Reflection: Across the line y = 1




5) Translation: 2 right and 5 up




6) Rotation: 180° about the origin

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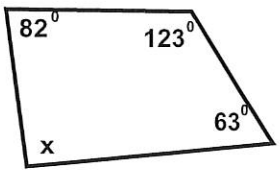
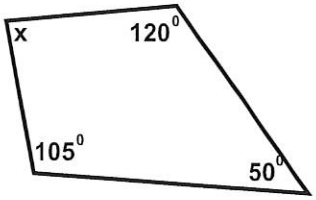
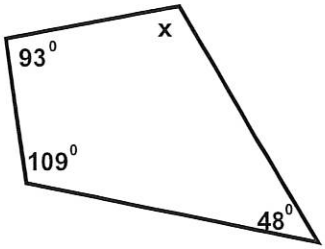
**Find the measure of the missing angle.**

1) 

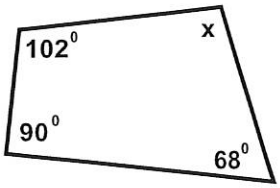

Solve for x _____

2) 

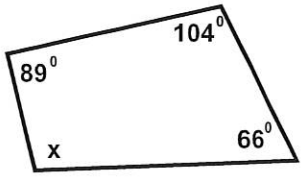

Solve for x _____

3) 

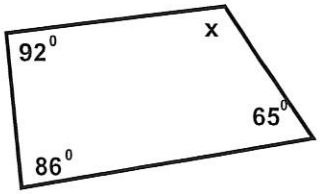

Solve for x _____

4) 

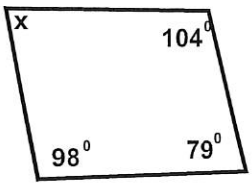

Solve for x _____

5) 

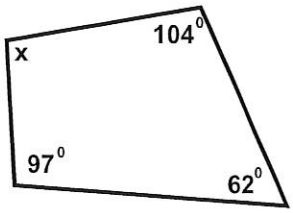

Solve for x _____

6) 

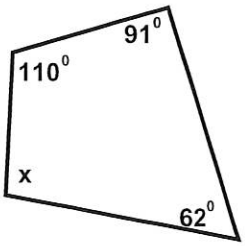

Solve for x _____

7) 

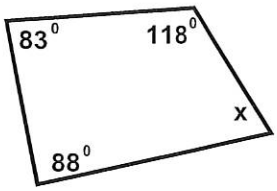

Solve for x _____

8) 

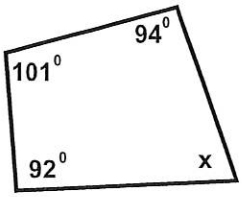

Solve for x _____

9) 

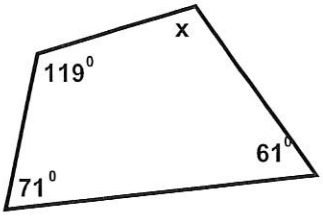

Solve for x _____

10) 


Solve for x _____

11) 


Solve for x _____

12) 


Solve for x _____

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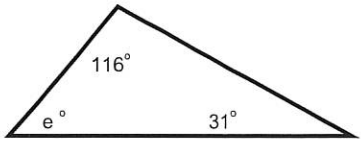
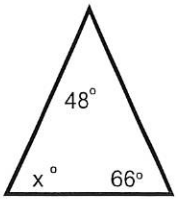
# Triangle Angle Sum

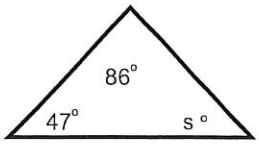
**Solve for the given variable.**

1) 

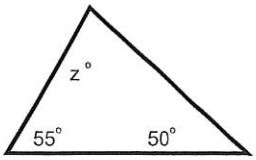

e = ____

2) 

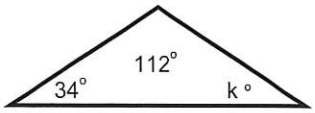

x = ____

3) 

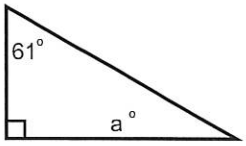

s = ____

4) 

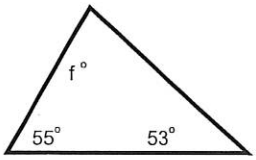

z = ____

5) 

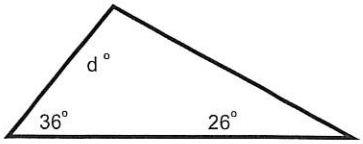

k = ____

6) 


a = ____

7) 


f = ____

8) 


d = ____

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