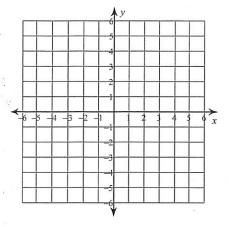
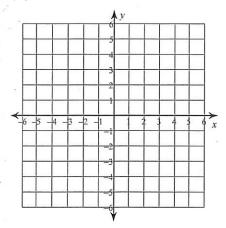
Graphing Lines

Sketch the graph of each line.

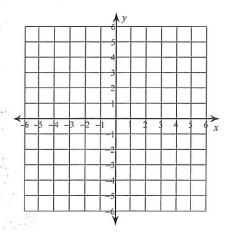
1)
$$y = \frac{7}{2}x - 2$$



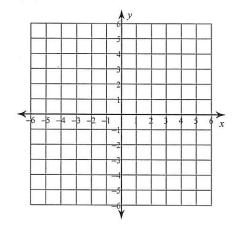
3)
$$y = -5$$



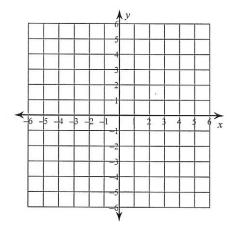
5)
$$y = \frac{1}{4}x + 2$$



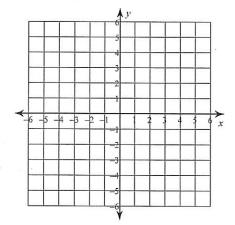
2)
$$y = -6x + 3$$



4)
$$y = \frac{6}{5}x + 1$$

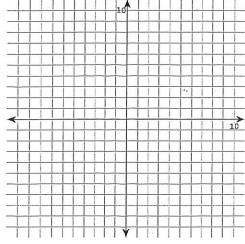


6)
$$x = 5$$



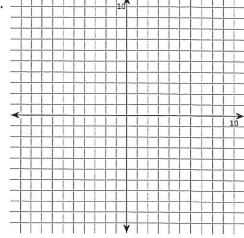
Graphing Worksheet

1 a.



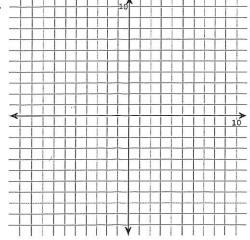
Graph the equation y = 4x - 2.

1 b.



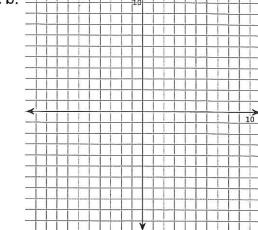
Graph the equation y = -5x + 4.

2 2



Graph the equation y = -2x - 3.

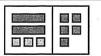
2 ł

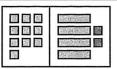


Graph the equation y = -4x - 3.

Solving Two-Step Equations

Write the equation represented by each equation box. Then solve the equation.







For each equation, tell whether the number in bold is a solution.

4.
$$\frac{p}{7} = -14$$
; **-98** _

5.
$$-2x + 3 = 5$$
; **2** _____

4.
$$\frac{p}{7} = -14$$
; **-98** _____ **5.** $-2x + 3 = 5$; **2** ____ **6.** $\frac{a}{-8} - 5 = -3$; **-16** ____

7.
$$\frac{u}{-5}$$
 + 7 = 12; 30 _

8.
$$4x + (-3) = 9$$
; **3** _____

7.
$$\frac{u}{-5} + 7 = 12$$
; **30** ____ **8.** $4x + (-3) = 9$; **3** ____ **9.** $\frac{q}{3} + (-4) = 11$; **-15** ____

Solve each equation. Check your solutions.

10.
$$3b + (-7) = -25$$
 11. $\frac{n}{-4} + (-3) = 8$ **12.** $16 = 4h - 12$ **13.** $\frac{x}{6} - (-10) = 3$

12.
$$16 = 4h - 12$$

13.
$$\frac{x}{6} - (-10) = 3$$

14.
$$8w - 17 = -89$$
 15. $\frac{c}{7} - 12 = -4$ **16.** $\frac{p}{-5} + 12 = 20$ **17.** $5j + (-16) = -76$

$$12 = -4$$
 16. $\frac{P}{-5} + 12 =$

17.
$$5j + (-16) = -76$$

$$W = \underline{\hspace{1cm}}$$

$$w = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}} j = \underline{\hspace{1cm}}$$

18.
$$\frac{k}{-3} + (-8) = -8$$
 19. $-11z + 42 = 86$ **20.** $15 = \frac{d}{2} - (-12)$ **21.** $13r - (-12) = 103$

$$d =$$

$$r =$$

22.
$$\frac{g}{12} + (-8) = -5$$
 23. $24 = \frac{m}{-5} + 17$ **24.** $42 = 7t - 42$ **25.** $-18y + 14 = -166$

24.
$$42 = 7t - 42$$

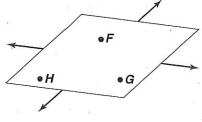
25.
$$-18y + 14 = -166$$

- 26. The area of a trapezoid is 32 cm². Its height is 8 cm and one base has length 3 cm. Write and solve an equation to find the length of the other base.
- 27. Science Gorillas and chimpanzees can learn sign language to communicate with humans. By 1982, a gorilla named Koko had learned 700 words. This is 50 fewer than 5 times as many words as a chimp named Washoe knew a decade earlier. How many words did Washoe know?

Reteaching 8-1

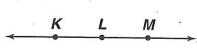
Points, Lines, Segments, and Rays

Each point F, G, and H, indicates an exact location in space.



Plane FGH is flat and extends indefinitely as suggested by the arrows.

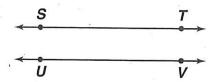
Line $KM(\overrightarrow{KM})$ is a series of points that extends in two opposite directions without end.



Segment $LM(\overline{LM})$ is part of \overrightarrow{KM} . The points L and M are endpoints of \overline{LM} .

Ray $LM(\overrightarrow{LM})$ is part of a line. Point L is its only endpoint.

 \overrightarrow{ST} and \overrightarrow{UV} are parallel lines. They are in the same plane but do not intersect. They have no points in common.



Points on the same line are collinear. Points S and T are collinear.

Skew lines are neither parallel nor intersecting.

Read each statement. Write true or false.

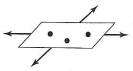
1. A line has two endpoints.

2. A plane has only two points.

3. A segment is part of a line.

- **4.** A plane is flat.
- 5. Collinear points lie on different lines.
- **6.** A ray has two endpoints.
- **7.** A ray has no beginning or end.
- 8. A plane contains only one line.
- 9. Parallel segments do not intersect.
- **10.** Skew lines intersect.

Match each figure with its name.



12.



- a. ray

- b. plane

d. segment

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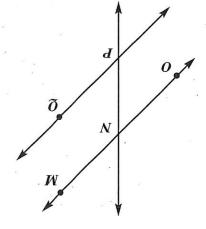
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Points, Lines, Segments, and Rays

F-8 esitsen9

Use the diagram at the right. Name each of the following.

1. three collinear points



- 2. three noncollinear points3. three segments
- 4. three rays
- 5. two lines that appear to be parallel
- 6. two pairs of intersecting lines
- 7. Draw four collinear points.

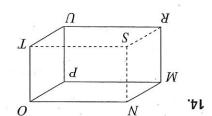
 8. Draw five noncollinear points.

Use sometimes, always, or never to complete each sentence.

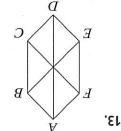
14	15.	A line	ue seų ——
		noncollinear.	
	10.	Four points are	***************************************

11. A ray _____ has one endpoint.

Name the segments that appear to be parallel.



endpoint.



9. Three points are _collinear.