

## Adding/Subtracting Integers

**Find each sum.**

1)  $(-12) + 7$

2)  $(-10) + (-7)$

3)  $(-6) + 12$

4)  $8 + 7$

5)  $3 + 4$

6)  $(-45) + 9$

7)  $(-1) + (-46)$

8)  $(-30) + 10$

9)  $(-34) + 50$

10)  $38 + (-5)$

**Find each difference.**

11)  $2 - (-2)$

12)  $(-1) - 10$

13)  $8 - 7$

14)  $(-8) - (-6)$

$15) 11 - 4$

$16) 48 - (-31)$

$17) 18 - 41$

$18) (-38) - 30$

$19) (-1) - (-3)$

$20) (-1) - (-40)$

**Evaluate each expression.**

$21) (-10) - 47$

$22) (-29) - 29$

$23) 13 + (-29)$

$24) 38 + 22$

$25) (-32) - 44$

$26) (-12) + (-11)$

$27) 2 + 15 + 4$

$28) 16 + (-13) + 5$

$29) 2 - (-9) - 8$

$30) 10 + 3 - (-8)$

## Adding/Subtracting Integers

**Find each sum.**

1)  $(-12) + 7$

 $-5$ 

2)  $(-10) + (-7)$

 $-17$ 

3)  $(-6) + 12$

 $6$ 

4)  $8 + 7$

 $15$ 

5)  $3 + 4$

 $7$ 

6)  $(-45) + 9$

 $-36$ 

7)  $(-1) + (-46)$

 $-47$ 

8)  $(-30) + 10$

 $-20$ 

9)  $(-34) + 50$

 $16$ 

10)  $38 + (-5)$

 $33$ **Find each difference.**

11)  $2 - (-2)$

 $4$ 

12)  $(-1) - 10$

 $-11$ 

13)  $8 - 7$

 $1$ 

14)  $(-8) - (-6)$

 $-2$

$15) 11 - 4$

7

$16) 48 - (-31)$

79

$17) 18 - 41$

-23

$18) (-38) - 30$

-68

$19) (-1) - (-3)$

2

$20) (-1) - (-40)$

39

**Evaluate each expression.**

$21) (-10) - 47$

-57

$22) (-29) - 29$

-58

$23) 13 + (-29)$

-16

$24) 38 + 22$

60

$25) (-32) - 44$

-76

$26) (-12) + (-11)$

-23

$27) 2 + 15 + 4$

21

$28) 16 + (-13) + 5$

8

$29) 2 - (-9) - 8$

3

$30) 10 + 3 - (-8)$

21

## Dividing Integers

**Find each quotient.**

1)  $35 \div -5$

2)  $-8 \div 4$

3)  $-24 \div 4$

4)  $-8 \div -2$

5)  $8 \div 4$

6)  $-24 \div 8$

7)  $-21 \div 7$

8)  $6 \div -6$

9)  $-132 \div -11$

10)  $-60 \div -15$

11)  $-52 \div -4$

12)  $60 \div 12$

$13) 6 \div -1$

$14) 75 \div 15$

$15) 65 \div -13$

$16) 12 \div 4$

$17) -168 \div -12$

$18) -8 \div 2$

$19) \frac{-105}{7}$

$20) \frac{-4}{-1}$

$21) \frac{-10}{-2}$

$22) \frac{-144}{12}$

$23) \frac{24}{-12}$

$24) \frac{60}{-15}$

## Dividing Integers

**Find each quotient.**

1)  $35 \div -5$

 $-7$ 

2)  $-8 \div 4$

 $-2$ 

3)  $-24 \div 4$

 $-6$ 

4)  $-8 \div -2$

 $4$ 

5)  $8 \div 4$

 $2$ 

6)  $-24 \div 8$

 $-3$ 

7)  $-21 \div 7$

 $-3$ 

8)  $6 \div -6$

 $-1$ 

9)  $-132 \div -11$

 $12$ 

10)  $-60 \div -15$

 $4$ 

11)  $-52 \div -4$

 $13$ 

12)  $60 \div 12$

 $5$

$13) 6 \div -1$

-6

$14) 75 \div 15$

5

$15) 65 \div -13$

-5

$16) 12 \div 4$

3

$17) -168 \div -12$

14

$18) -8 \div 2$

-4

$19) \frac{-105}{7}$

-15

$20) \frac{-4}{-1}$

4

$21) \frac{-10}{-2}$

5

$22) \frac{-144}{12}$

-12

$23) \frac{24}{-12}$

-2

$24) \frac{60}{-15}$

-4



## Order of Operations

**Evaluate each expression.**

1)  $(30 - 3) \div 3$

2)  $(21 - 5) \div 8$

3)  $1 + 7^2$

4)  $5 \times 4 - 8$

5)  $8 + 6 \times 9$

6)  $3 + 17 \times 5$

7)  $7 + 12 \times 11$

8)  $15 + 40 \div 20$

9)  $20 + 16 - 15$

10)  $19 - 15 - 3$

11)  $9 \times (3 + 3) \div 6$

12)  $(9 + 18 - 3) \div 8$

$13) 9 + 6 \div (8 - 2)$

$14) 4(4 \div 2 + 4)$

$15) 6 + (5 + 8) \times 4$

$16) 6 \times 6 - (7 + 5)$

$17) (9 \times 2) \div (2 + 1)$

$18) 2 - (4 + 3 - 6)$

$19) 7 \times 7 - (8 - 2)$

$20) 9 - 7 - 6 \div 6$

$21) (4 - 1 + 8 \div 8) \times 5$

$22) (10 \times 2) \div (1 + 1)$

$23) 7 \times 9 - 7 - 3 \times 5$

$24) 8 - 1 - (18 - 2) \div 8$

## Order of Operations

**Evaluate each expression.**

1)  $(30 - 3) \div 3$

9

2)  $(21 - 5) \div 8$

2

3)  $1 + 7^2$

50

4)  $5 \times 4 - 8$

12

5)  $8 + 6 \times 9$

62

6)  $3 + 17 \times 5$

88

7)  $7 + 12 \times 11$

139

8)  $15 + 40 \div 20$

17

9)  $20 + 16 - 15$

21

10)  $19 - 15 - 3$

1

11)  $9 \times (3 + 3) \div 6$

9

12)  $(9 + 18 - 3) \div 8$

3

$13) 9 + 6 \div (8 - 2)$

10

$14) 4(4 \div 2 + 4)$

24

$15) 6 + (5 + 8) \times 4$

58

$16) 6 \times 6 - (7 + 5)$

24

$17) (9 \times 2) \div (2 + 1)$

6

$18) 2 - (4 + 3 - 6)$

1

$19) 7 \times 7 - (8 - 2)$

43

$20) 9 - 7 - 6 \div 6$

1

$21) (4 - 1 + 8 \div 8) \times 5$

20

$22) (10 \times 2) \div (1 + 1)$

10

$23) 7 \times 9 - 7 - 3 \times 5$

41

$24) 8 - 1 - (18 - 2) \div 8$

5

## Multi-Step Equations

**Solve each equation.**

1)  $6a + 5a = -11$

2)  $-6n - 2n = 16$

3)  $4x + 6 + 3 = 17$

4)  $0 = -5n - 2n$

5)  $6r - 1 + 6r = 11$

6)  $r + 11 + 8r = 29$

7)  $-10 = -14v + 14v$

8)  $-10p + 9p = 12$

9)  $42 = 8m + 13m$

10)  $a - 2 + 3 = -2$

11)  $18 = 3(3x - 6)$

12)  $30 = -5(6n + 6)$

$$13) 37 = -3 + 5(x + 6)$$

$$14) -13 = 5(1 + 4m) - 2m$$

$$15) 4(-x + 4) = 12$$

$$16) -2 = -(n - 8)$$

$$17) -6(1 - 5v) = 54$$

$$18) 8 = 8v - 4(v + 8)$$

$$19) 10(1 + 3b) = -20$$

$$20) -5n - 8(1 + 7n) = -8$$

$$21) 8(4k - 4) = -5k - 32$$

$$22) -8(-8x - 6) = -6x - 22$$

$$23) 8(1 + 5x) + 5 = 13 + 5x$$

$$24) -11 - 5a = 6(5a + 4)$$

$$25) -5(4x - 2) = -2(3 + 6x)$$

$$26) 5(2x + 6) = -4(-5 - 2x) + 3x$$

## Multi-Step Equations

**Solve each equation.**

1)  $6a + 5a = -11$

 $\{-1\}$ 

2)  $-6n - 2n = 16$

 $\{-2\}$ 

3)  $4x + 6 + 3 = 17$

 $\{2\}$ 

4)  $0 = -5n - 2n$

 $\{0\}$ 

5)  $6r - 1 + 6r = 11$

 $\{1\}$ 

6)  $r + 11 + 8r = 29$

 $\{2\}$ 

7)  $-10 = -14v + 14v$

No solution.

8)  $-10p + 9p = 12$

 $\{-12\}$ 

9)  $42 = 8m + 13m$

 $\{2\}$ 

10)  $a - 2 + 3 = -2$

 $\{-3\}$ 

11)  $18 = 3(3x - 6)$

 $\{4\}$ 

12)  $30 = -5(6n + 6)$

 $\{-2\}$



$$13) 37 = -3 + 5(x + 6)$$

{2}

$$14) -13 = 5(1 + 4m) - 2m$$

{-1}

$$15) 4(-x + 4) = 12$$

{1}

$$16) -2 = -(n - 8)$$

{10}

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{-1}

$$23) 8(1 + 5x) + 5 = 13 + 5x$$

{0}

$$24) -11 - 5a = 6(5a + 4)$$

{-1}

$$25) -5(4x - 2) = -2(3 + 6x)$$

{2}

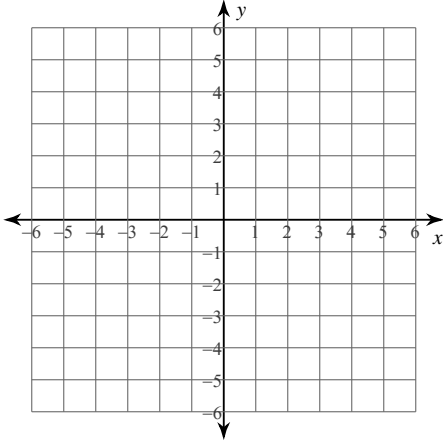
$$26) 5(2x + 6) = -4(-5 - 2x) + 3x$$

{10}

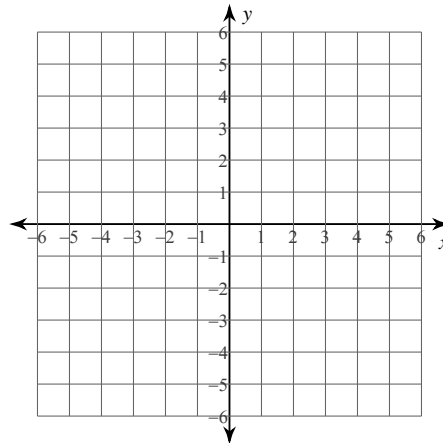
## Graphing Lines in Slope-Intercept Form

Sketch the graph of each line.

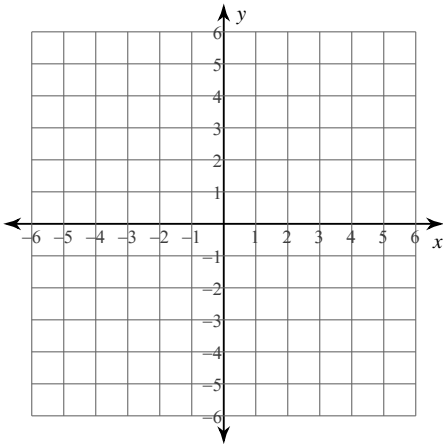
1)  $y = \frac{1}{4}x - 1$



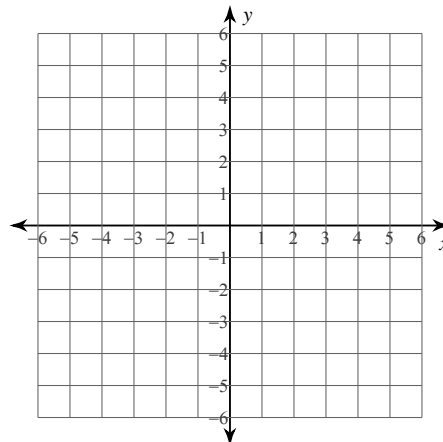
2)  $y = -x + 2$



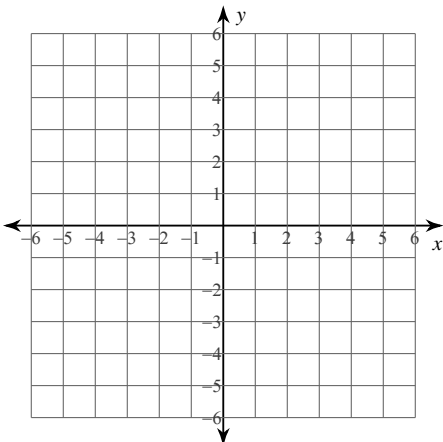
3)  $y = x + 1$



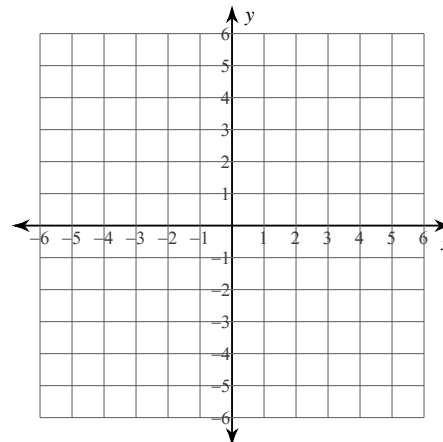
4)  $y = \frac{4}{3}x - 4$



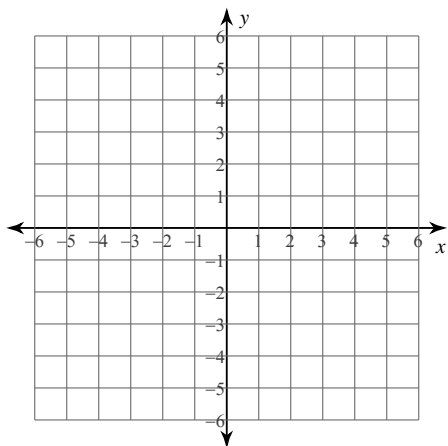
5)  $y = -3x - 3$



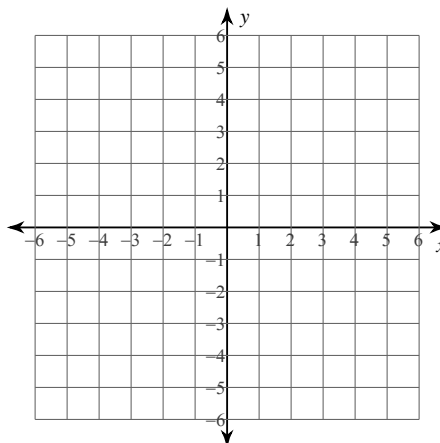
6)  $y = 4$



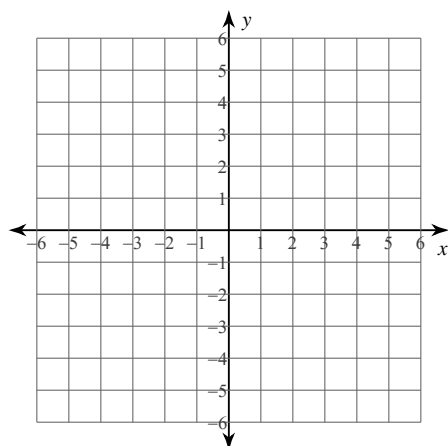
7)  $y = \frac{3}{5}x - 1$



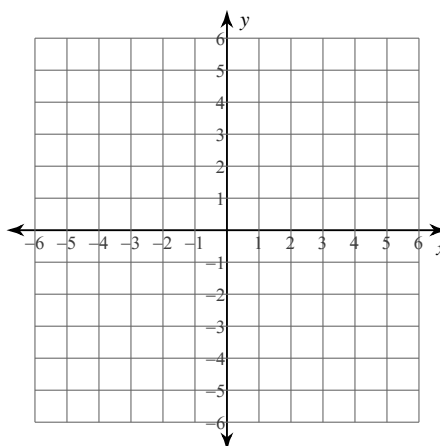
8)  $x = 5$



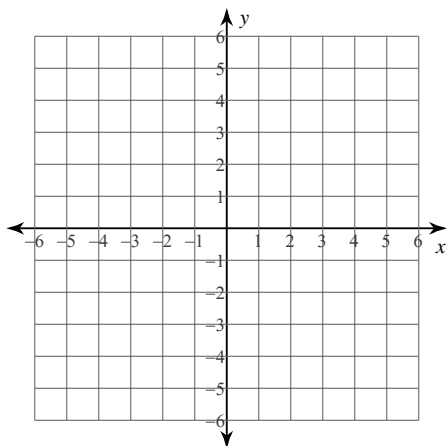
9)  $y = 3$



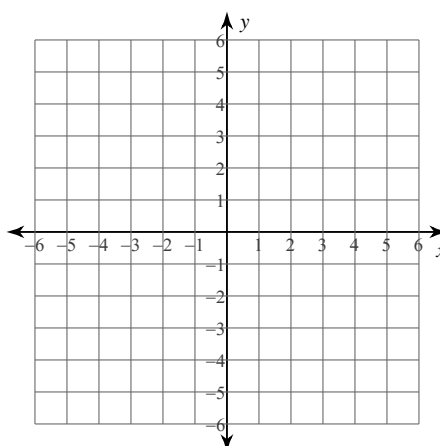
10)  $y = 3x - 2$



11)  $y = 4x + 3$



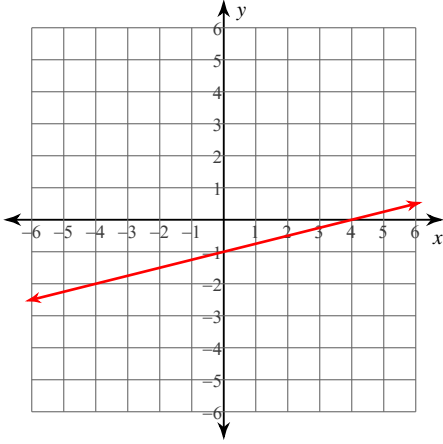
12)  $y = \frac{6}{5}x + 5$



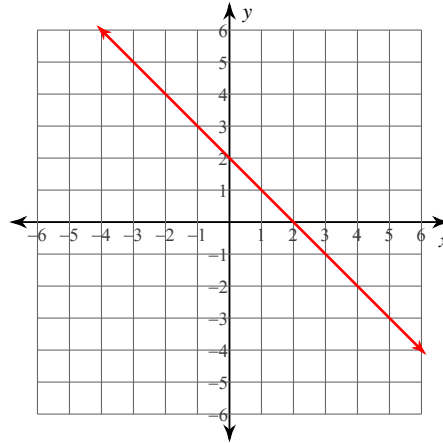
# Graphing Lines in Slope-Intercept Form

Sketch the graph of each line.

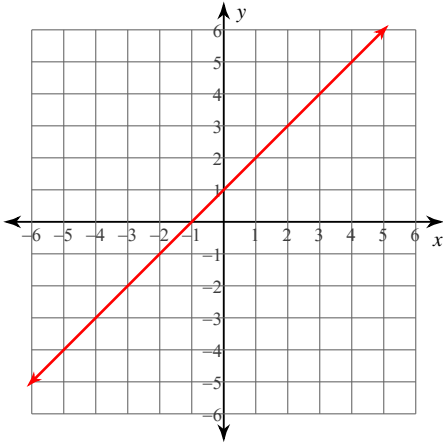
1)  $y = \frac{1}{4}x - 1$



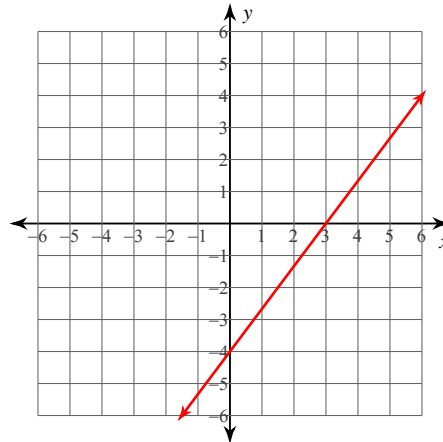
2)  $y = -x + 2$



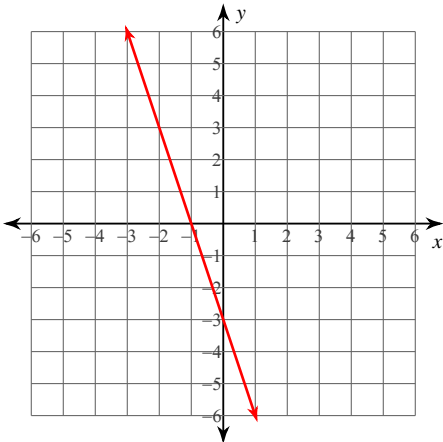
3)  $y = x + 1$



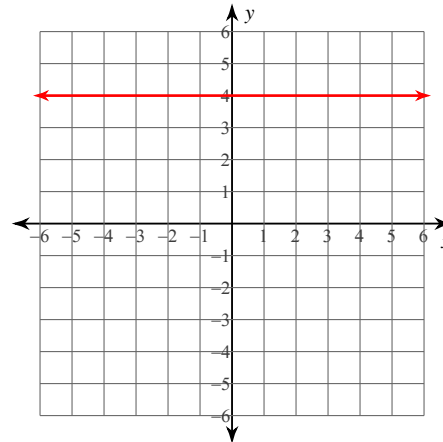
4)  $y = \frac{4}{3}x - 4$



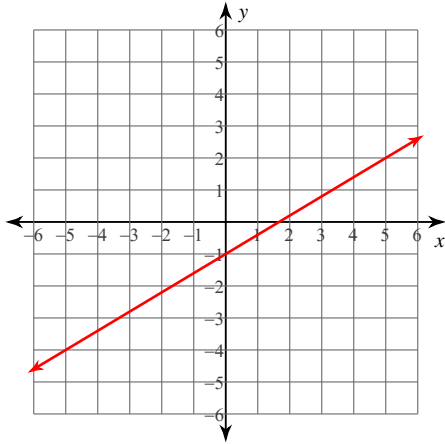
5)  $y = -3x - 3$



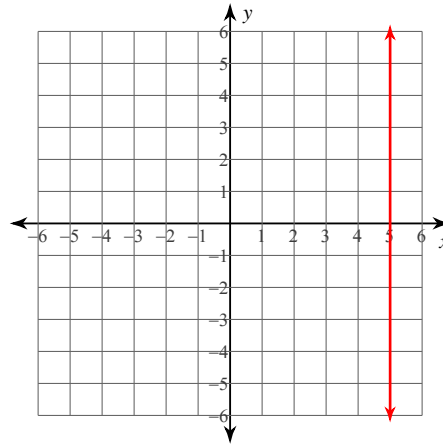
6)  $y = 4$



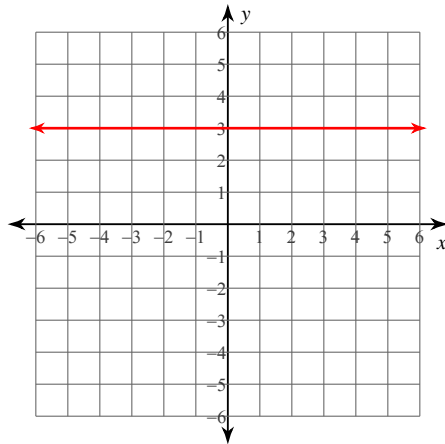
$$7) y = \frac{3}{5}x - 1$$



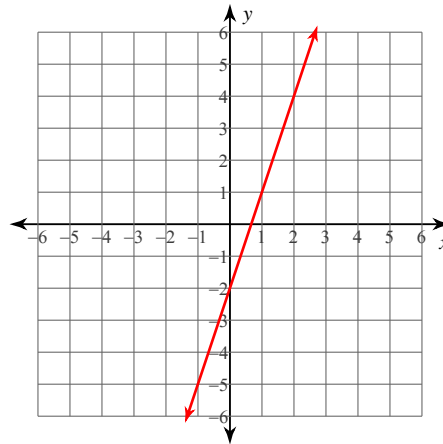
$$8) x = 5$$



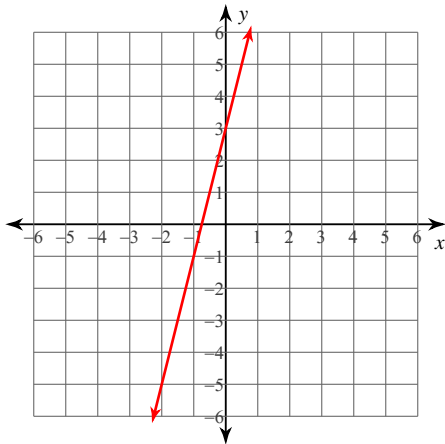
$$9) y = 3$$



$$10) y = 3x - 2$$



$$11) y = 4x + 3$$



$$12) y = \frac{6}{5}x + 5$$

