Lesson 4-1a: Ordered Pairs and Evaluating Linear Functions

Instructions: Write each of the given values for x and y as an ordered pair.

1) x=-4
y=-6

2) x=-6
y=-4

3) x=-9
y=-9

4) x=-2
y=0

5) x=-5
y=-2

6) x=-1
y=-4

7) x=-7
y=0

8) x=-6
y=-8

9) x=-9
y=-2

10) x=-9
y=-7

11) x=-8
y=-2

12) x=0
y=0

(-5,-2) (-2,0) (0,0)
(-9,-9) (-1,-4) (-9,-7)
(-6,-4) (-7,0) (-8,-2)
(-6,-8) (-4,-6) (-9,-2)

Instructions: Evaluate the equation with each given value for x

13) What is the value of y for -5x + 4 = y when x=8?

-36

14) What is the value of y for -2x + 1 = y when x=0?

62

15) What is the value of y for -6x - 2 = y when x=-6?

1

16) What is the value of y for -6x + 8 = y when x=-9?

34

17) What is the value of y for -3x + 1 = y when x=3?

-8

18) What is the value of y for -x - 1 = y when x=8?

-9

AL Lesson 4-1b5: Ordered Pairs and Evaluating Linear Functions

Instructions: Complete each ordered pair.

1) -2x - 7 = y (-7,____)

2) 2x = y (4,____)

3) -x + 8 = y (-1,____)

4) 2x - 2 = y (4,____)

5) -4x = y (9,____)

6) 6x - 4 = y (-8,____)

7) -3x + 7 = y (-5,____)

8) 5x - 8 = y (-4,____)

9) 5x + 4 = y (___,44)

10) x - 1 = y (___,0)

11) x + 8 = y (___,12)

12) 6x - 7 = y (___,35)

13) 3x - 9 = y (___,18)

14) x - 8 = y (___,-3)

15) -5x - 2 = y (___,-37)

16) 2x - 3 = y (___,11)

7	9	22	7
7	1	5	4
8	-36	-28	6
-52	8	9	7

AL Lesson 4-2a: Finding x and y-intercepts of lines

Instructions: Find the y-intercept of each line.

1) 6x - 5 = y
2) -3x + 8 = y
3) -4x + 3 = y
4) -2x + 8 = y
5) -4x = y
6) 3x = y
7) -x - 5 = y
8) 6x - 2 = y
9) -3x - 8 = y
10) 2x - 7 = y
11) 6x - 9 = y
12) -6x - 8 = y
13) -3x + 3 = y
14) 4x + 3 = y

(0,0)
(0,-2)
(0,-8)
(0,0)
(0,-5)
(0,3)
(0,8)
(0,-9)
(0,-5)
(0,-7)
(0,3)
(0,8)
(0,-8)
(0,3)

Instructions: Find the x-intercept of each line.

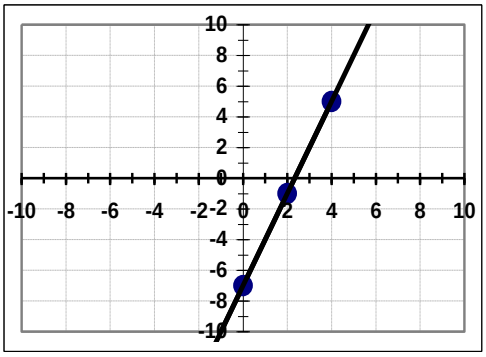
15) -2x - 8 = y
16) 3x + 6 = y
17) -6x + 24 = y
18) x = y
19) 3x - 9 = y
20) -2x - 8 = y
21) -6x + 12 = y
22) -3x - 3 = y
23) 2x + 6 = y
24) 3x - 3 = y
25) 6x - 6 = y
26) x - 1 = y

(2, 0)
(-1, 0)
(-3, 0)
(1, 0)
(1, 0)
(1, 0)
(-4, 0)
(0, 0)
(3, 0)
(-4, 0)
(4, 0)
(-2, 0)

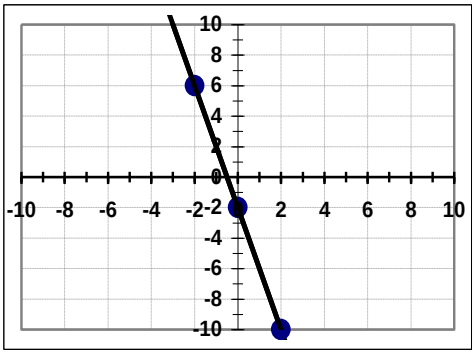
AL Lesson 4-2b: Finding y-intercepts of lines I

Instructions: Find the y-intercept of each line.

1)



2)



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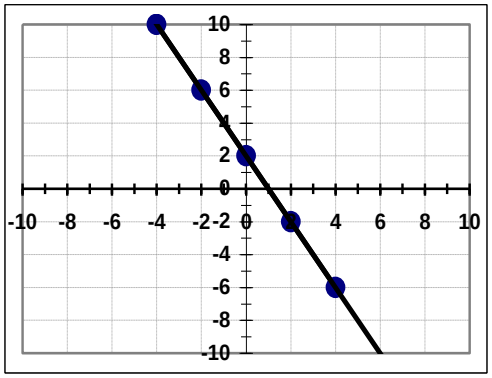

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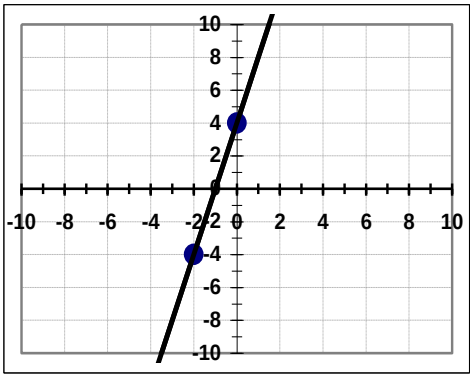

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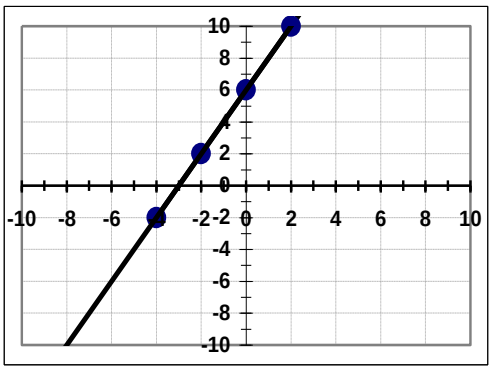

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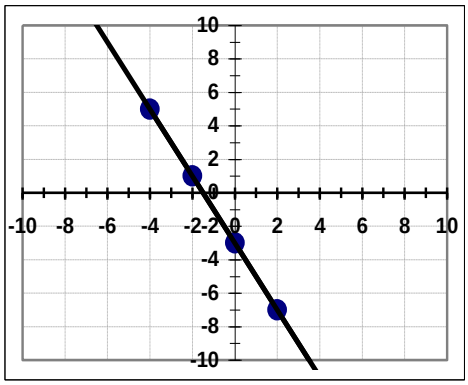

(0,4)	(0,-2)	(0,2)
(0,-3)	(0,6)	(0,-7)

AL Lesson 4-3a: Graphing Lines in Slope Intercept Form

1)	$y = 2x - 8$	A line sloping upward through (0, 1)
2)	$y = 5x + 5$	A line sloping downward through (0, 1)
3)	$y = -4x - 2$	A line sloping downward through (0, -8)
4)	$y = -2x - 5$	A line sloping downward through (0, -3)
5)	$y = -5x + 1$	A line sloping upward through (0, -8)
6)	$y = 5x + 1$	A line sloping downward through (0, 5)
7)	$y = x - 1$	A line sloping downward through (0, -4)
8)	$y = -x + 1$	A line sloping downward through (0, -3)
9)	$y = -x - 3$	A line sloping upward through (0, -8)
10)	$y = x + 8$	A line sloping upward through (0, -1)
11)	$y = -5x + 5$	A line sloping downward through (0, 1)
12)	$y = 5x - 8$	A line sloping upward through (0, -2)
13)	$y = 5x - 2$	A line sloping upward through (0, 8)
14)	$y = -5x - 8$	A line sloping upward through (0, 5)
15)	$y = -4x - 4$	A line sloping downward through (0, -2)
16)	$y = -3x - 3$	A line sloping downward through (0, -5)

AL Lesson 4-3b: Algebraic Word Problems

Instructions: Answer the questions below.

1) **Three more than a number is equal to -1. What is the number?**

3

2) **-9 is equal to six less than a number. What is the number?**

8

3) **Six more than a number is equal to 15. What is the number?**

-1

4) **-1 is equal to two less than a number. What is the number?**

-4

5) **-3 is equal to the product of three and another number. What is the number?**

-3

6) **The product of four and another number is 12. What is the number?**

9

7) **-2 is equal to the product of two and another number. What is the number?**

6

8) **The product of two and another number is 12. What is the number?**

-1

9) **It takes 20 minutes to print four leaflets. How long does it take to print one leaflet ?**

5

10) **The combined weight of four cases of apples is 32 lbs. How much does one case of apples weigh?**

1

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