Lesson 6-1B - Sovling systems by graphing

Answers (repuestas) **p. 265 #71-76 all; p.279 #1-11 odds**

71) A

72) B

73) C

74) 1

75) $-\frac{1}{5}$

76) $\frac{7}{2}$

1) yes

3) yes

5) (0,2)

7) (1,1)

9) (6, -1)

11) (4,0)

Due Monday: p.279 #2-12 evens

1) *Write the equation* of the line that is **parallel** to $y = -2x + 9$ and passes through point (4, -3).

2) Is (-1, 5) a solution to the system?

$$y = 2x + 7$$

$$y = x + 6$$

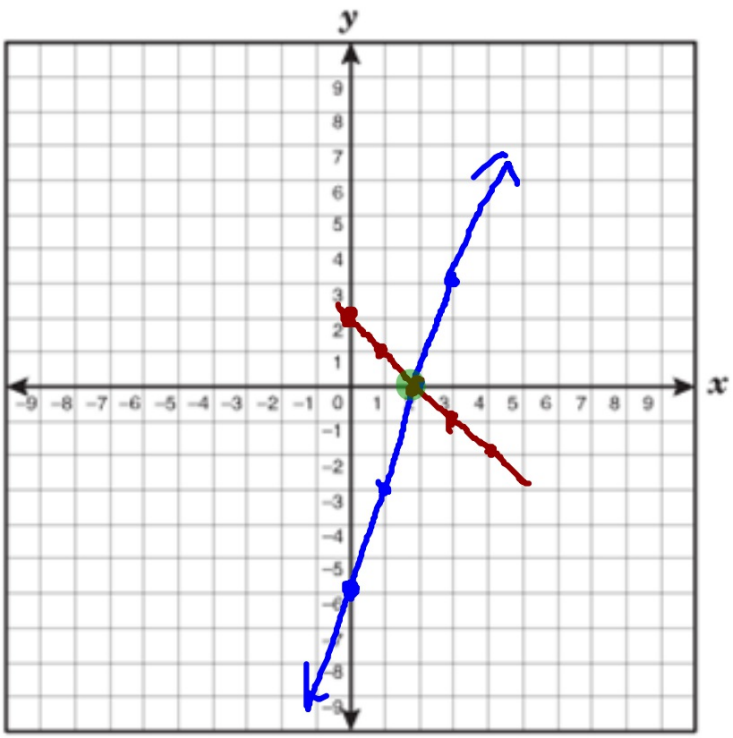
Name:
Period:
Date:

System of equations: two or more equations.

The "solution" is a point (x, y) that makes both equations true.

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

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



(2, 0)

point of intersection.

Emilio has $30 in his bank account. He starts saving $5 every week. His brother, Jorge, has $5 in his bank account, and starts saving $10 every week.

A) Write a **system of equations** that show how the amount in each bank account increases.

B) Graph each equation on the same **coordinate plane**.

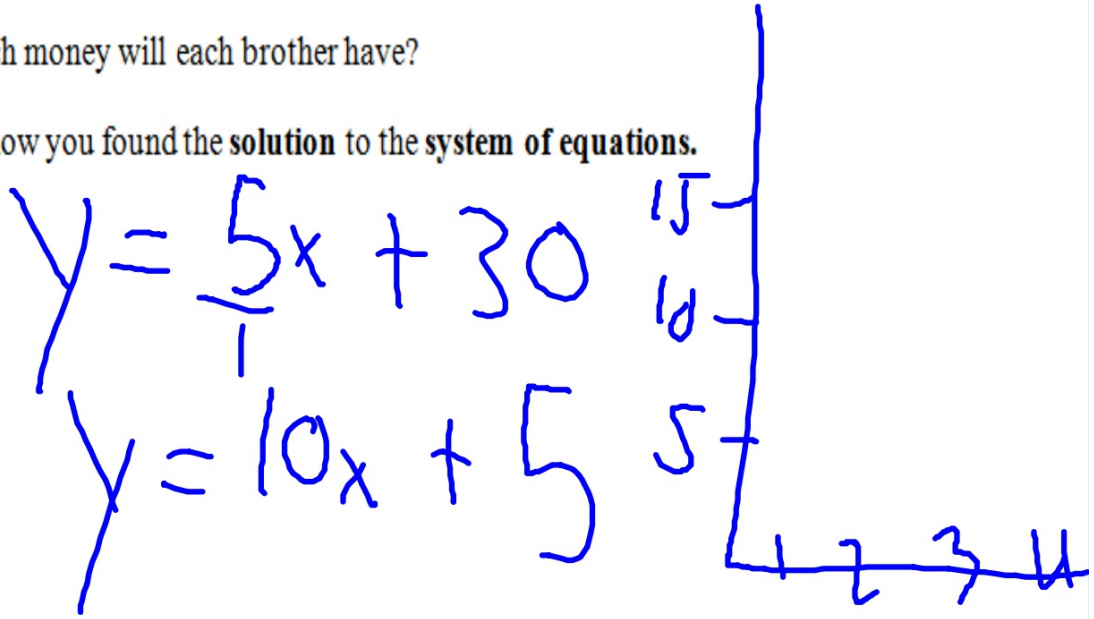
Question 1: After how many weeks will the brothers have the same amount of money in their accounts?

Question 2: How much money will each brother have?

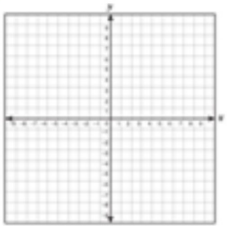
Question 3: Explain how you found the **solution** to the **system of equations.**

$y = 5x + 30$

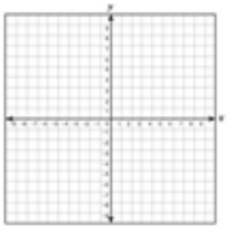
$y = 10x + 5$



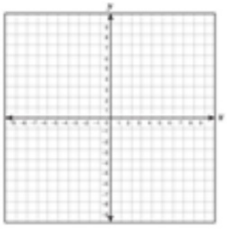
5



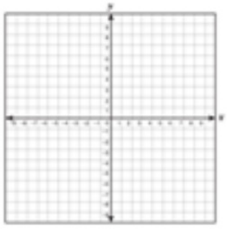
7

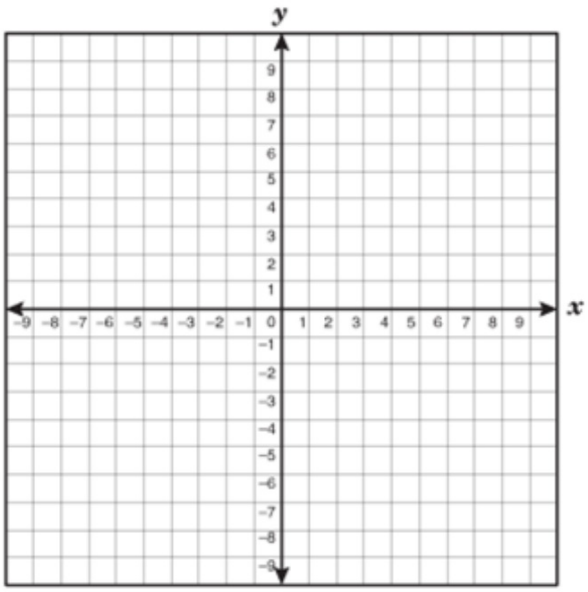


9



11




y
x
9
8
7
6
5
4
3
2
1
−9 −8 −7 −6 −5 −4 −3 −2 −1 0 1 2 3 4 5 6 7 8 9
−1
−2
−3
−4
−5
−6
−7
−8
−9