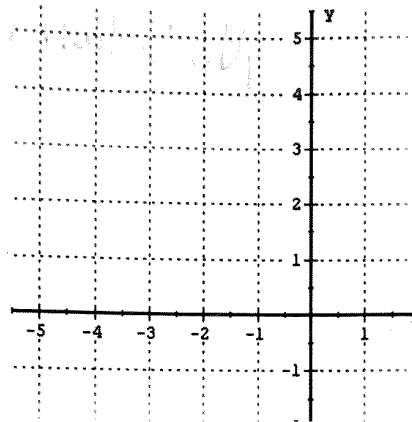


Objective: Graph a system of linear equations to find potential solutions. Use the substitution method to verify your answer.

No
work

$$1. y = \frac{1}{2}x - 3$$

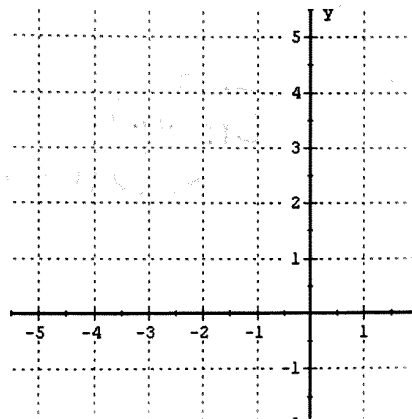
$$y = \frac{3}{2}x - 1$$



$$(-2, -4)$$

$$2. y = -\frac{5}{3}x + 3$$

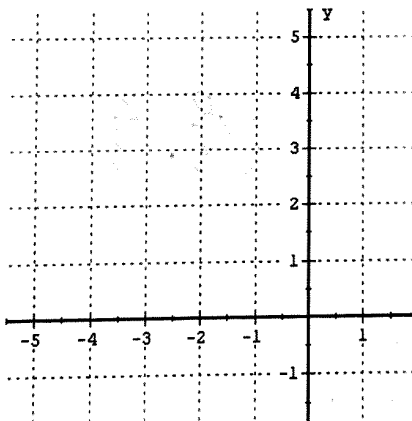
$$x - 3y = 9$$



$$(3, -2)$$

$$3. y = x + 1$$

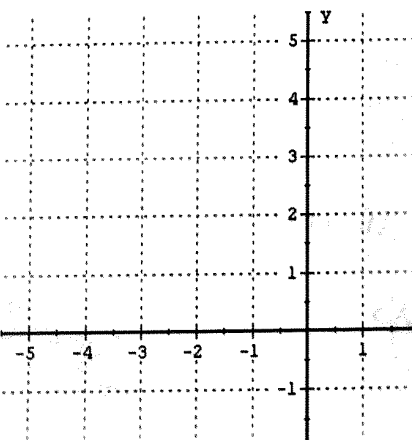
$$y = 4$$



$$(3, 4)$$

$$4. x = -2$$

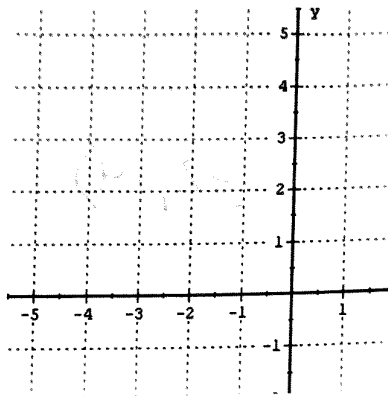
$$6x - 2y = -6$$



$$(-2, -3)$$

5. $y = \frac{-3}{4}x + 2$

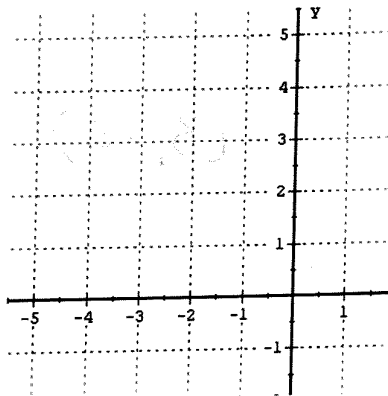
$4y = -3x - 4$



No Solution

6. $5y = 2x - 15$

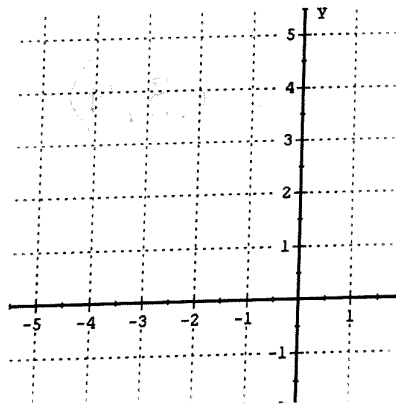
$6x - 15y = 45$



Infinite Solutions

7. $x + y = 4$

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

 $(\frac{10}{3}, \frac{2}{3})$

8. Your English teacher is giving you a test worth 200 points containing only 6 questions. There are some short answer questions that are worth twenty-five points each and there are some essay questions that are worth fifty points each. How many of each type of question are there on the test?

4 short answer
2 essays