

EXTRA PRACTICE — Exercises

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Unit III – First Degree Relations with Two Placeholders

Part A – Solution Set for One Open Sentence

Lesson 6 – Graphing Techniques - Intercepts

For each of the following, determine if the intercept approach is reasonably appropriate as a method of graphing the solution set. If it is, graph the solution set line using that approach. If it is not, just explain why.

1. $3x + y = 3$

2. $x - y = -1$

3. $2x - 3y = -12$

4. $2x + y = 12$

5. $2x + 5y = 20$

6. $7x - 2y = 10$

7. $3x + 12y = 0$

8. $3x + 4y = -18$

9. $5x - 4y = 16$

10. $3x - 5y = 4$

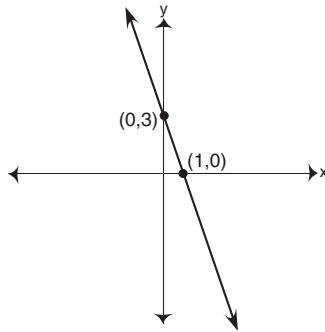
EXTRA PRACTICE — Answer Key

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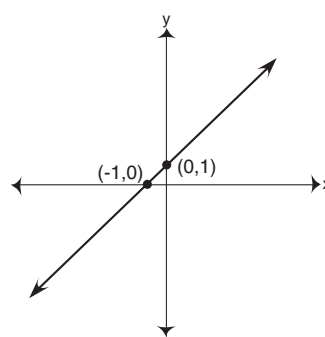
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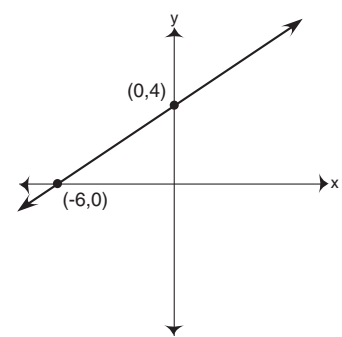
1.



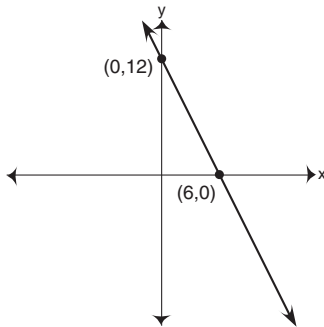
2.



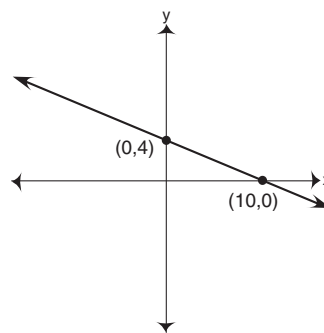
3.



4.



5.



6. Not a reasonable approach since 10 is not evenly divisible by 7.

7. Not a reasonable approach since when $x=0$ $y=0$, and if $y=0$, $x=0$.

We must find another pair of numbers by substitution., like $(8, -2)$.

8. Not a reasonable approach since -18 is not evenly divisible by 4.

9. Not a reasonable approach since 16 is not divisible by 5.

10. Not a reasonable approach since 4 is not evenly divisible by 3 and -5 .