EXTRA PRACTICE — Exercises

Unit III – First Degree Relations with Two Placeholders
Part B – Special Cases of Solution Sets
Lesson 3 – Absolute Value

Graph the solution set for each of the following absolute value relations given in the form $y = a|x|$, using the pattern shown in the examples.

1. $y = 3|x|$

2. $y = \dfrac{-3}{4}|x|$

3. $y = {}^{-}2|x|$

Graph the solution set for each of the following absolute value relations in the form $y = a|x - b|$, using the pattern shown in the examples.

4. $y = 2|x+3|$

5. $y = \dfrac{2}{3}|x-1|$

6. $y = -|x+4|$

Graph the solution set for each of the following absolute value relations in the form $y = a|x| + c$, using the pattern shown in the examples.

7. $y = -|x| - 1$

8. $y = {}^{-}2|x| + 4$

9. $y = 2|x| - 5$

Graph the solution set for each of the following absolute value relations in the form $y = a|x - b| + c$, using the pattern shown in the examples.

10. $y = 2|x - 2| + 2$

11. $y = \dfrac{{}^{-}2}{3}|x+1| - 2$

12. $3y + 3 = 2|x|$

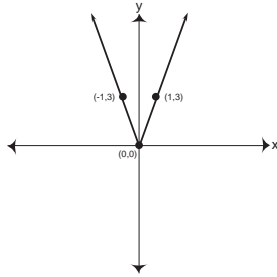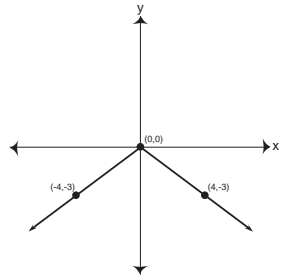## Unit III – First Degree Relations with Two Placeholders
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Graph the solution set for each of the following absolute value relations given in the form $y = a\,|\,x\,|$, using the pattern shown in the examples.
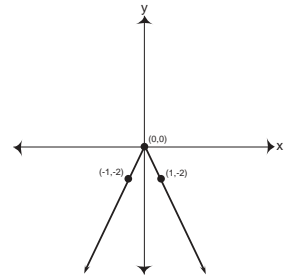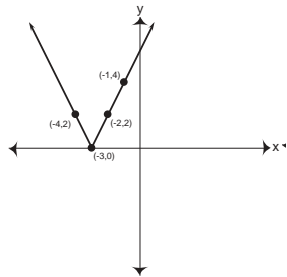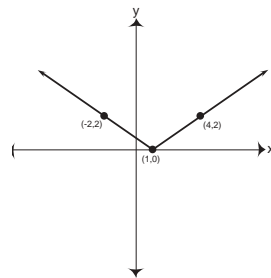
1.

2.

3.

Graph the solution set for each of the following absolute value relations in the form $y = a\,|\,x - b\,|$, using the pattern shown in the examples.
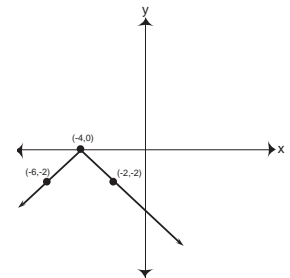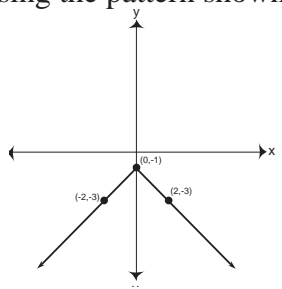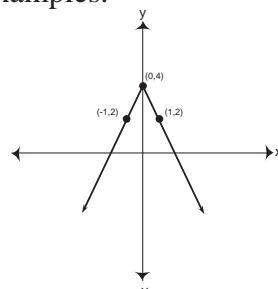
4.

5.

6.

Graph the solution set for each of the following absolute value relations in the form $y = a|x| + c$, using the pattern shown in the examples.
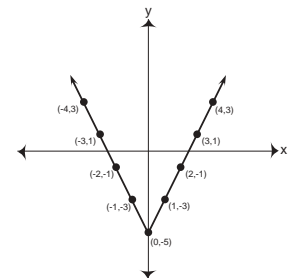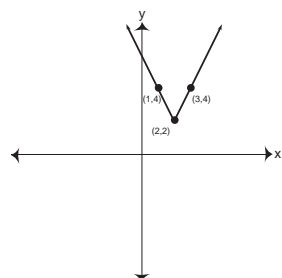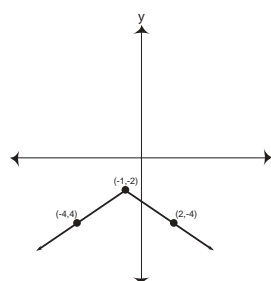
7.

8.

9.

Graph the solution set for each of the following absolute value relations in the form $y = a|x - b| + c$, using the pattern shown in the examples.

10.

11.

12.