

Practice 2-5

Absolute Value Functions and Graphs

Match each equation with its graph.

1. $y = |x - 1|$

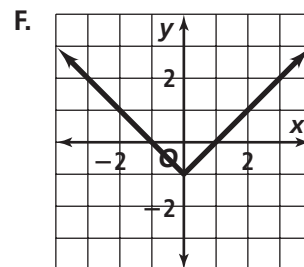
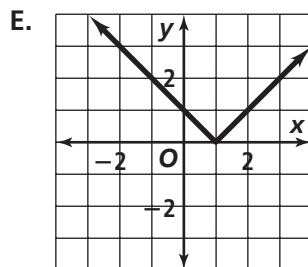
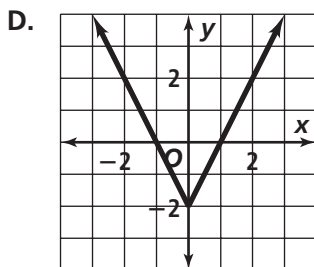
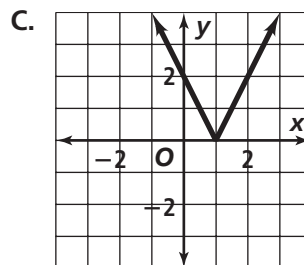
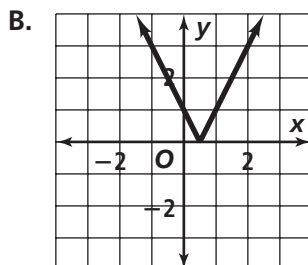
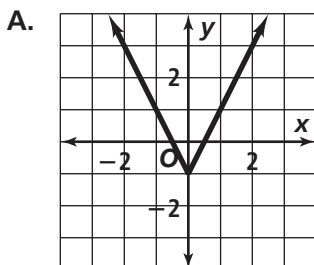
2. $y = 2|x - 1|$

3. $y = |2x| - 1$

4. $y = |x| - 1$

5. $y = |2x - 1|$

6. $y = |2x| - 2$



Graph each equation by writing two linear equations.

7. $y = |x - 3|$

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

9. $y = 2|x + 2|$

10. $y = |x + 3| - 1$

11. $y = -|3x + 4|$

12. $y = \left| \frac{1}{2}x - 2 \right| + 1$

Graph each absolute value equation.

13. $y = |3 - x|$

14. $y = -\frac{2}{3} \left| \frac{1}{3}x \right|$

15. $y = 3 - |x + 1|$

16. $y = -|-x - 2|$

17. $3y = |2x - 9|$

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

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

20. $y + 3 = |x + 1|$

21. $-2y = |2x - 4|$

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