

2-7**Practice**

Form G

Absolute Value Functions and Graphs

Graph each equation.

1. $y = |x| - 2$

2. $y = |x| + 3$

3. $y = |x| - 5$

4. $y = |x| - 4$

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

6. $y = |x + 1| - 4$

Graph each equation. Then describe the transformation from the parent function $f(x) = |x|$.

7. $y = 2|x|$

8. $y = \frac{1}{4}|x|$

9. $y = -3|x|$

Without graphing, identify the vertex, axis of symmetry, and transformations from the parent function $f(x) = |x|$.

10. $y = |x - 4|$

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

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

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