

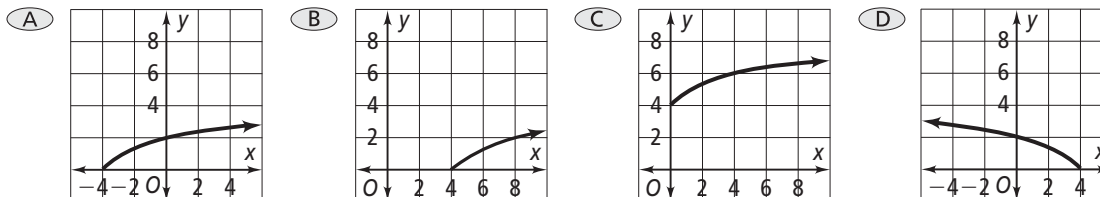
# 6-8 Standardized Test Prep

## Graphing Radical Functions

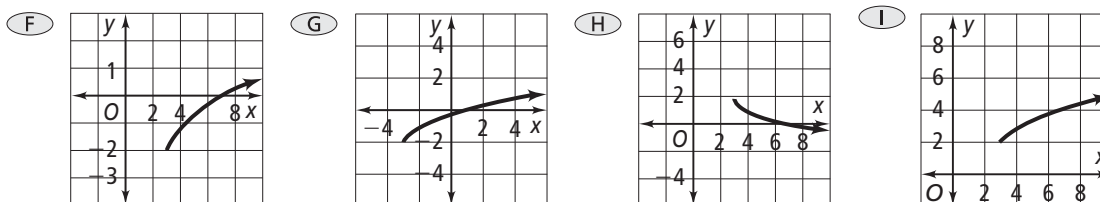
### Multiple Choice

For Exercises 1–4, choose the correct letter.

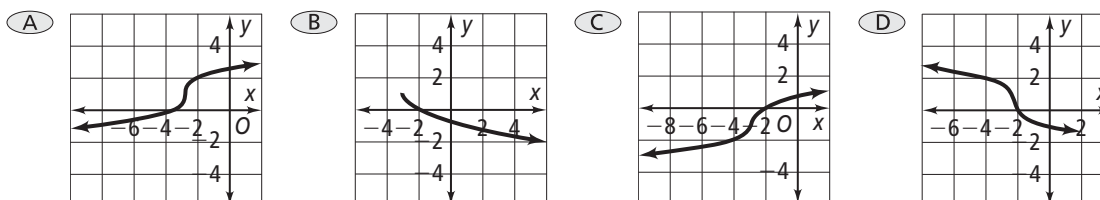
1. What is the graph of  $y = \sqrt{x} + 4$ ?



2. What is the graph of  $y = \sqrt{x - 3} - 2$ ?



3. What is the graph of  $y = 1 - \sqrt[3]{x + 3}$ ?



4. What is the description of  $y = \sqrt{9x - 3}$  to make it easy to graph using transformations of its parent function?

- (F) the graph of  $y = 3\sqrt{x}$ , shifted right 3 units
- (G) the graph of  $y = 3\sqrt{x}$ , shifted right  $\frac{1}{3}$  unit
- (H) the graph of  $y = \sqrt{x}$ , shifted right 3 units and up 9 units
- (I) the graph of  $y = \sqrt{x}$ , shifted right  $\frac{1}{3}$  unit and up 9 units

### Short Response

5. What is the graph of  $y = 2\sqrt{x - 1} + 3$ ?