

Chapter Test A

For use after Chapter 9

Evaluate the expression.

1. $\sqrt{81}$

2. $-\sqrt{100}$

3. $\sqrt{b^2 - 4ac}$ when $a = 3, b = 7, c = 2$

4. $\sqrt{b^2 - 4ac}$ when $a = 3, b = 8, c = 4$

Solve the equation by finding square roots.

5. $x^2 = 81$

6. $x^2 = 49$

Simplify the expression.

7. $\sqrt{45}$

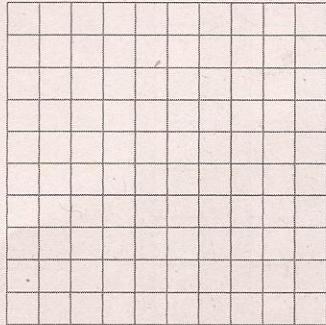
8. $\sqrt{54}$

9. $\sqrt{\frac{16}{25}}$

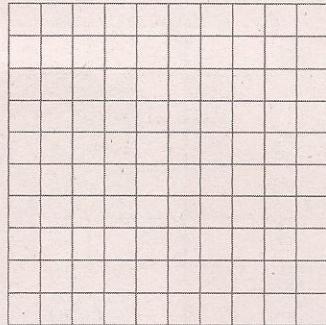
10. $\sqrt{\frac{10}{32}}$

Sketch the graph of the function. Label the vertex.

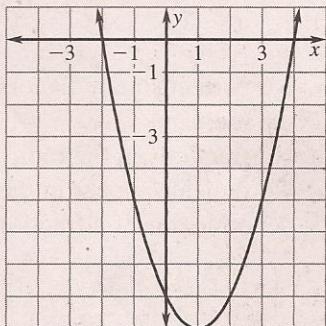
11. $y = 3x^2$



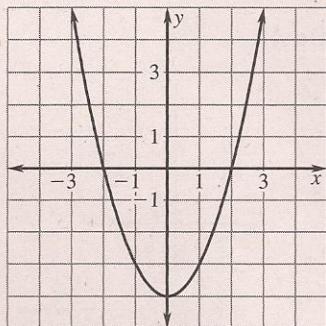
12. $y = -x^2$

**Use the graph to estimate the roots of the equation.**

13. $y = x^2 - 2x - 8$



14. $y = x^2 - 4$

**Use the quadratic formula to solve the equation.**

15. $0 = x^2 + x - 20$

16. $0 = x^2 - 5x + 6$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. Use grid at left.12. Use grid at left.

13. _____

14. _____

15. _____

16. _____