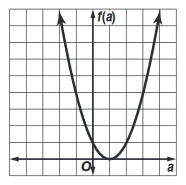
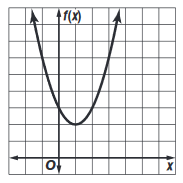
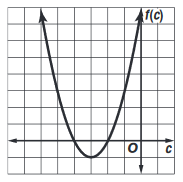
Quadratic and Radical Functions – Exam Review #8

*Match each graph to the number of solutions it has. Then, list the solutions in the blanks provided.*

**\_\_\_\_\_ 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3.**

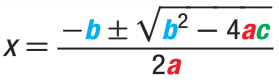
A. No Solutions B. 1 Solution C. 2 Solutions

x = \_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_

*Name the transformations which are indicated by the given equations.*

**4.** y = x2 + 3 **5.** y = 4x2 **6.** y = (x – 5)2

**7.** y = x2 **8.** y = (x + 7)2 **9.** y = -x2 – 8



*Use the quadratic formula to solve the given equations.*

**10.**  + 2x – 3 = 0 **11.**  – *x* – 20 = 0

**12.**  – 5*x* – 36 = 0 **13.**  + 11*x* + 30 = 0

*Solve each equation using the zero product property.*

**14.** *x*(*x* – 8) = 0 **15.** *b*(*b* + 12) = 0

**16.** (*m* – 3)(*m* + 5) = 0 **17.** (*a* – 9)(2*a* + 1) = 0

*Simplify the radical expressions. (Time for factor trees!)*

**18.** **19.** **20.**

**21.** **22.**

*Simplify each expression.*

**23.**  – **24.**  +

**25.**  +  **26.**