

## M3 Quadratics Review



qofv4bt4

1. What are the  $x$ -intercepts of the graph of  $y = 12x^2 - 5x - 2$ ?

- A. 1 and  $-\frac{1}{6}$     B.  $-1$  and  $\frac{1}{6}$     C.  $\frac{2}{3}$  and  $-\frac{1}{4}$     D.  $-\frac{2}{3}$  and  $\frac{1}{4}$

2. Which ordered pair is the vertex of  $f(x) = x^2 + 6x + 5$ ?

- A.  $(-3, -4)$     B.  $(-2, -3)$     C.  $(-1, 0)$     D.  $(0, -5)$

3. Which equation represents the graph of a parabola that opens up and is wider than the graph of  $y = x^2$ ?

- A.  $y = 2x^2 + 3x - 5$                       B.  $y = \frac{1}{2}x^2 + 3x - 5$   
C.  $y = -2x^2 + 3x - 5$                       D.  $y = -\frac{1}{2}x^2 + 3x - 5$

4. When  $f(x) = x^2 - 4x + 7$  is written in the form  $f(x) = (x - 2)^2 + 3$ , which properties of the graph are revealed?

- A. Axis of symmetry, maximum    B. Axis of symmetry, minimum  
C. Zeros, maximum                D. Zeros, minimum

5. Which function has zeros at 2 and  $-5$ ?

- A.  $y = x^2 + 3x + 10$                 B.  $y = x^2 - 3x + 10$   
C.  $y = x^2 + 3x - 10$                 D.  $y = x^2 - 3x - 10$

6. Which equation describes a parabola that has vertex  $(-3, 1)$  and passes through point  $(0, 4)$ ?

- A.  $y = \frac{1}{3}(x + 3)^2 + 1$                 B.  $y = 3(x + 3)^2 + 1$   
C.  $y = \frac{1}{3}(x - 3)^2 + 1$                 D.  $y = 3(x - 3)^2 + 1$

**Problem-Attic format version 4.4.217**

© 2011–2014 EducAide Software

Licensed for use by LeeAnn.Sepulvado@carteretk12.org

Terms of Use at [www.problem-attic.com](http://www.problem-attic.com)

M3 Quadratics Review      10/21/2014

1.  
Answer:      C
2.  
Answer:      A
3.  
Answer:      B
4.  
Answer:      B
5.  
Answer:      C
6.  
Answer:      A