MODULE 7 Connecting Intercepts, Zeros, and Factors

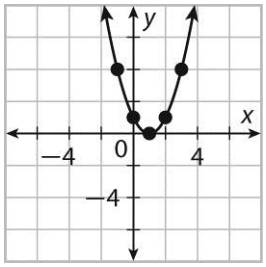
LESSON 7-1

Practice and Problem Solving: A/B

1. $y = x^2 - 2x + 1$

x	–1	0	1	2	3
y	4	1	0	1	4

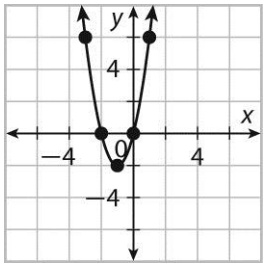
$x = 1$



2. $y = 2x^2 + 4x$

x	–3	–2	–1	0	1
y	6	0	–2	0	6

$x = -2$ and $x = 0$

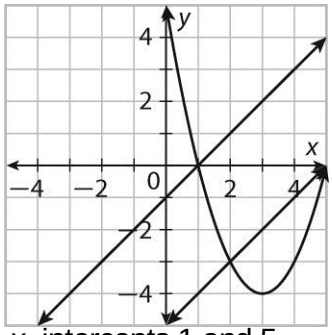


3. $t = 11$ sec

4. $t = 2.2$ sec

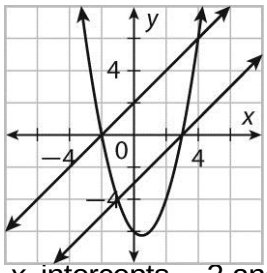
LESSON 7-2

Practice and Problem Solving: A/B

1. 

x-intercepts 1 and 5

Axis of symmetry: $x = 3$

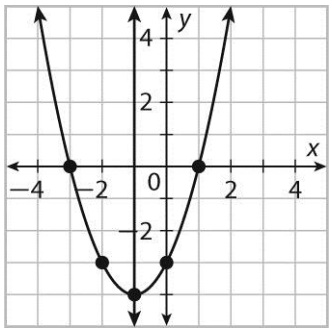
2. 

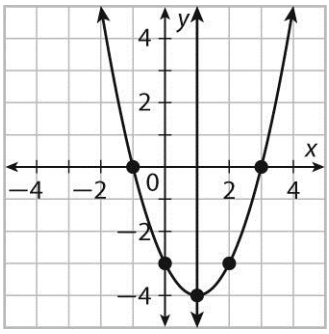
x-intercepts -2 and 3

Axis of symmetry: $x = \frac{1}{2}$

3. $y = 5x^2 + 5x - 30$

4. $y = -2x^2 + 8x - 6$

5. 

6. 

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LESSON 7-3

Practice and Problem Solving: A/B

1. $x = 3, x = -5$
2. $x = 0, x = 1$
3. $x = -1$
4. $x = 5, x = -1$
5. $x = 0, x = 3$
6. $x = 6, x = -1$
7. $x = 11, x = 1$
8. $x = -13, x = -5$
9. $x = -5, x = 8$
10. $x = 7, x = -2$
11. $x = -7, x = 2$
12. $x = 2, x = 4$
13. $x = -5, x = 3$
14. $x = -\frac{7}{3}, x = 7$
15. 4 *s*
16. 6 *s*

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