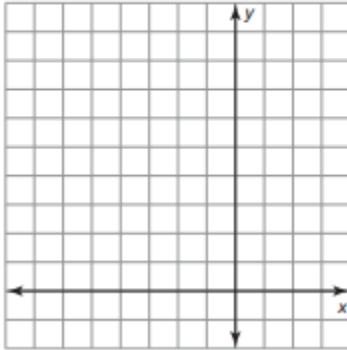


**9.6 WS from the WB**

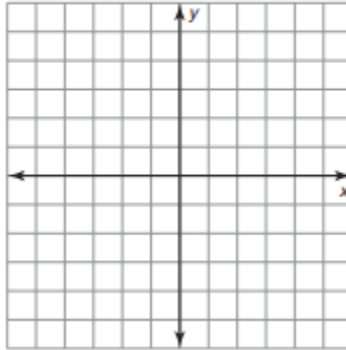
*All solutions should be in coordinate form.*

**1 – 6: Solve by graphing. Be sure to include your work for the vertex, x-intercepts, y-intercept, and t-chart.**

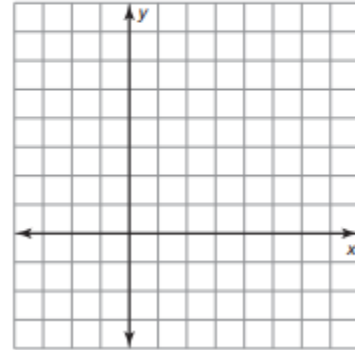
**1.**  $y = x^2 + 5x + 6$   
 $y = -x + 1$



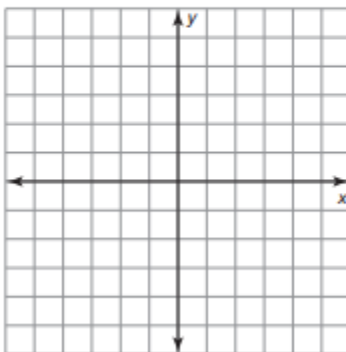
**2.**  $y = x^2 + x - 3$   
 $y = x + 1$



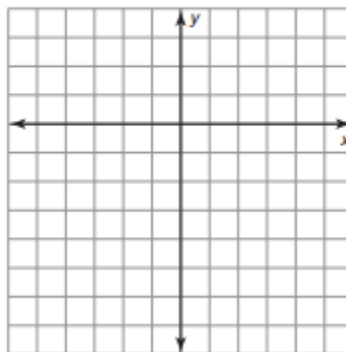
**3.**  $y = \frac{1}{2}x^2 - 2x + 1$   
 $y = -x + 1$



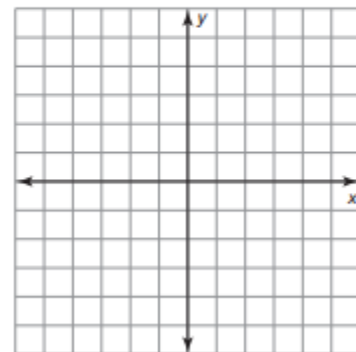
**4.**  $y = -3x^2 - 3x + 2$   
 $y = 2x$



**5.**  $y = -\frac{1}{3}x^2 + x - 2$   
 $y = -2$



**6.**  $y = 6x^2 + 3x - 5$   
 $y = -3x - 5$



**7 – 9: Solve the equation by substitution. Show all work.**

**7.**  $y - 2 = x^2$   
 $y = 6$

**8.**  $y = -2x^2$   
 $y = 3x + 2$

**9.**  $y = x - 4$   
 $y = x^2 + 3x - 4$

**10 – 12: Solve the equation by elimination. Be sure to show all work.**

**10.**  $y = x^2$   
 $y = x - 3$

**11.**  $y = x^2 + 3x - 5$   
 $y = 3x - 1$

**12.**  $y = x^2 + x - 2$   
 $y = x + 14$

**13 – 18: Solve the equation by graphing on your calculator. Round your solution(s) to the nearest hundredth, if necessary.**

**13.**  $-6x + 14 = x^2 - 9x + 16$

**14.**  $-x^2 + 4x = -2x + 8$

**15.**  $4x^2 - 9 = 4x - 1$

**16.**  $-\frac{1}{2}x + 1 = -x^2 + 4x$

**17.**  $2x^2 - 4 = -x^2 + 6$

**18.**  $-3\left(\frac{2}{3}\right)^x + 2 = x^2 - 2$