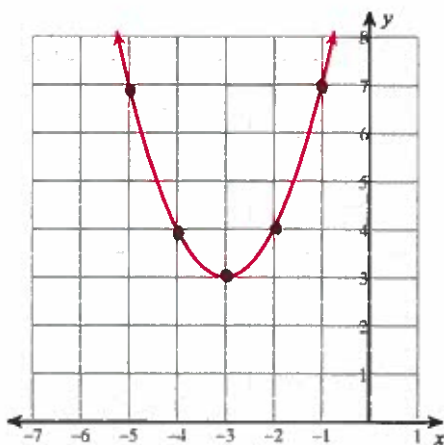


4.4 Completing the Square - Part 2

Date _____ Period _____

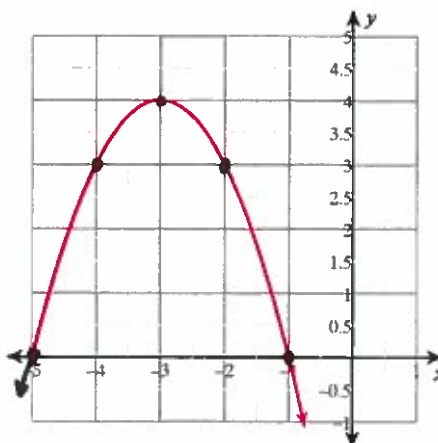
Sketch the graph of each function.

1) $y = x^2 + 6x + 12$



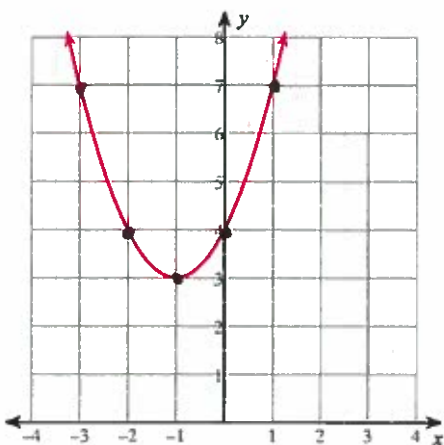
$$y = (x+3)^2 + 3$$

2) $y = -x^2 - 6x - 5$



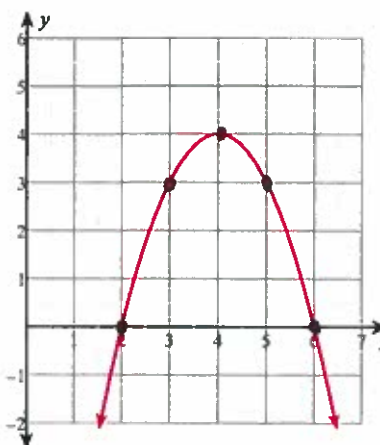
$$y = -(x+3)^2 + 4$$

3) $y = x^2 + 2x + 4$



$$y = (x+1)^2 + 3$$

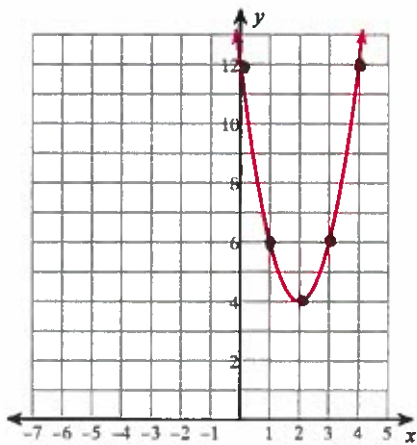
4) $y = -x^2 + 8x - 12$



~~$$y = -(x+)$$~~

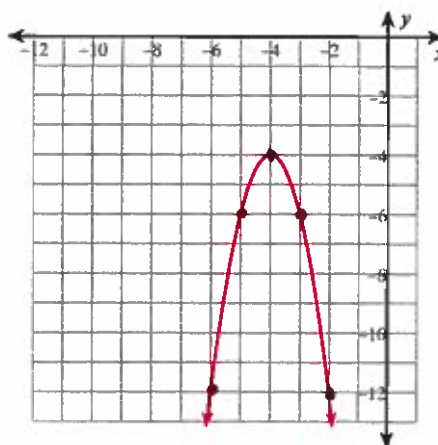
$$y = -(x-4)^2 + 4$$

5) $y = 2x^2 - 8x + 12$



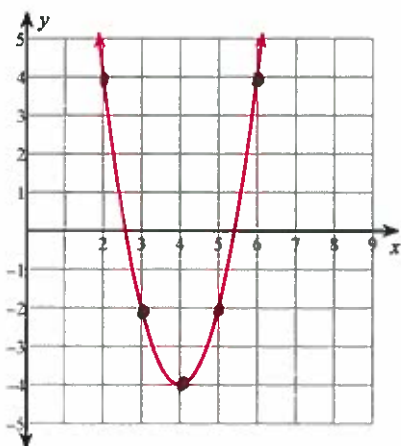
$$y = 2(x-2)^2 + 4$$

6) $y = -2x^2 - 16x - 36$



$$y = -2(x+4)^2 - 4$$

7) $y = 2x^2 - 16x + 28$



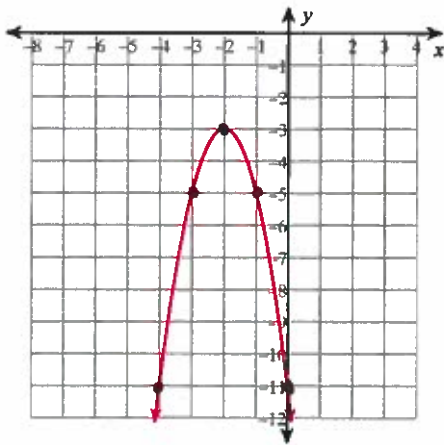
$$y = 2(x-4)^2 - 4$$

8) $y = -x^2 + 8x - 13$



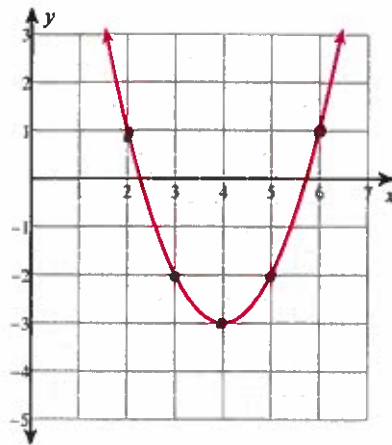
$$y = -(x-4)^2 + 3$$

9) $y = -2x^2 - 8x - 11$



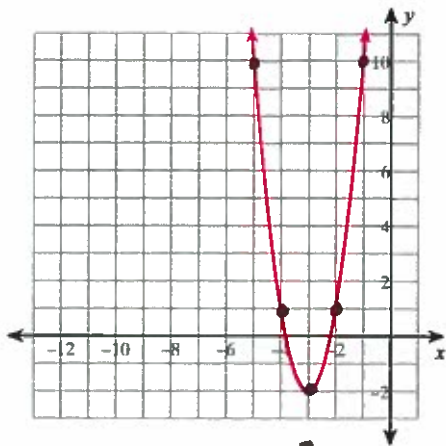
$$y = -2(x+2)^2 - 3$$

10) $y = x^2 - 8x + 13$



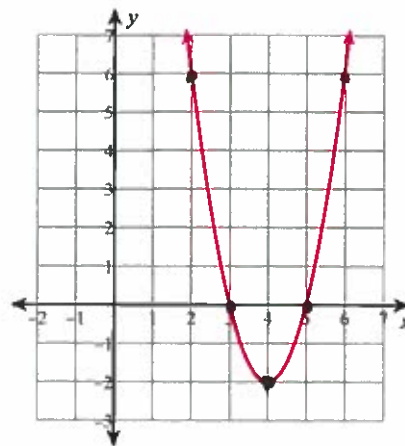
$$y = (x-4)^2 - 3$$

11) $y = 3x^2 + 18x + 25$



$$y = 3(x+3)^2 - 2$$

12) $y = 2x^2 - 16x + 30$



$$y = 2(x-4)^2 - 2$$