Ch 2 Review for Cumulative Exam

Graph:

1. $g(x) = \frac{1}{4}x - 3$

2. $g(x) = -\frac{5}{2}x + 1$

3. $h(x) = -3(x + 1)^2 - 8$

4. $h(x) = 2(x - 3)^2 - 1$

5. $f(x) = \frac{2}{3}|x + 1| - 5$

6. $f(x) = -2|x + 3| - 1$

7. For # 4 & # 5 , describe the transformations from their parent functions.

8. Write a quadratic function with:
   a. Vertex (3,2) and passes through (13, 8)
   b. Vertex (4, -1) and passes through (8, 3)
   c. x-intercepts 12 and -6 and passes through (14, 4)
   d. X-intercepts -1 and 5 and passes through (4,3)

9. Find the vertex of the parabola. Determine if it is a max or min.

   $y = 3x^2 - 6x$+4

10. (H) Complete the square to write in vertex form $y = 5x^2 + 20x + 7$