

T/PC

Ch 2

Sec 2.1 Review

Polynomials of No/Low Degree

Write a linear model for the 2 given points.

1. $f(-3) = -2$, $\leftarrow f(4) = -9$

2. $f(-3) = 6$ $f(1) = -2$

Describe the transformations done to $f(x) = x^2$.

Find the vertex, the axis, then sketch.

3. $f(x) = 3(x-2)^2 + 4$ 4. $g(x) = -(x+3)^2 + 1$

5. $h(x) = -2(x+3)^2 + 5$

Convert to vertex form

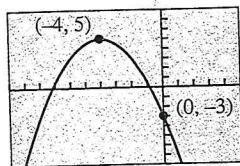
6. $f(x) = -2x^2 - 16x - 31$ 7. $g(x) = 3x^2 - 6x + 2$

Write an equation for the quadratic function with the given vertex and additional point.

8. $V(-2, 3)$ $(1, 2)$

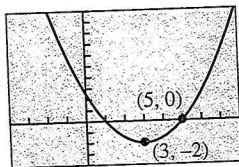
9. $V(-1, 1)$ $(3, -2)$

10.



[-10, 5] by [-8, 8]

11.



[-4, 8] by [-4, 10]

12. Carol bought a fairway mower for \$40,000. It depreciates over 20 years using the straight-line method. What is the value of the mower after 8 years?

13. #53 p. 170 gray book / p. 184 green book