

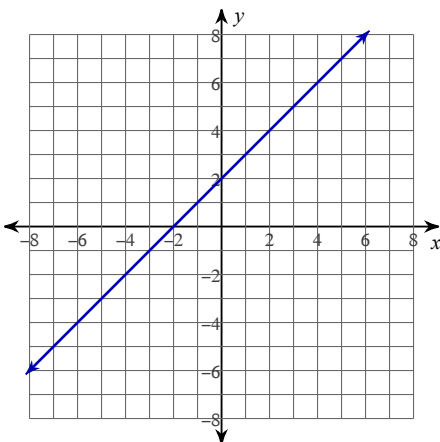
Unit 6 Functions Review

Write the definition and give an example of the following:

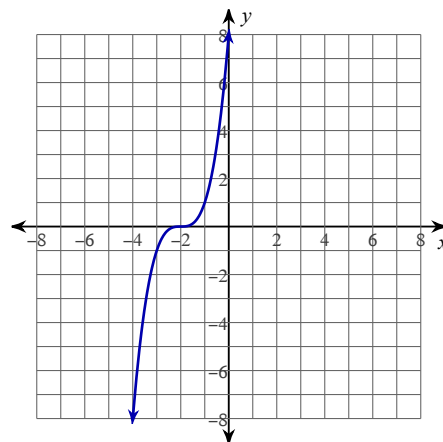
- 1) domain
- 2) range
- 3) linear
- 4) exponential
- 5) quadratic
- 6) vertex
- 7) parabola

Label as linear, quadratic, exponential, or none of these.

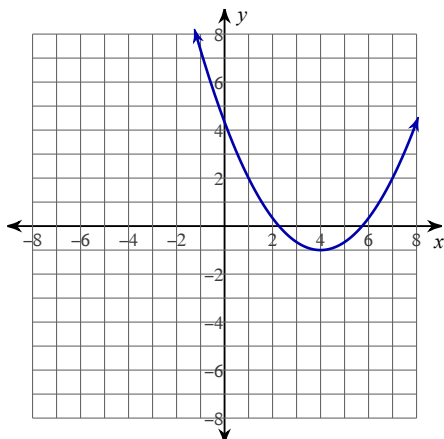
8)



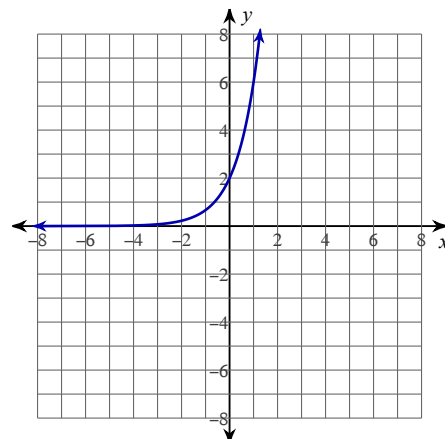
9)



10)

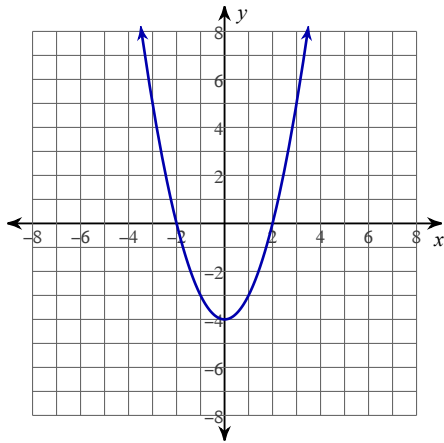


11)

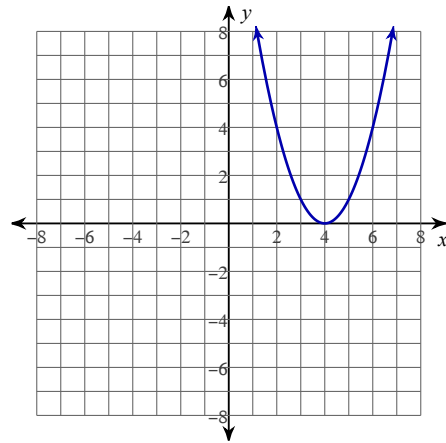


Write the equation for each graph.

12)



13)



Evaluate each function.

14)  $k(a) = -4a + 5$ ; Find  $k(3)$

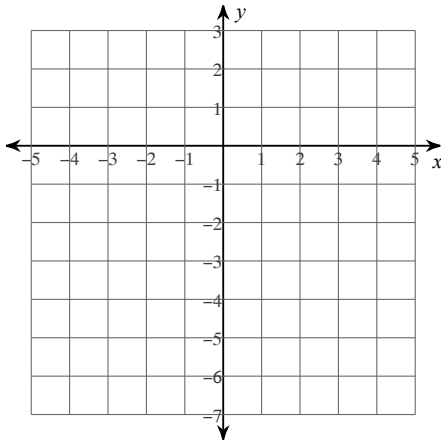
15)  $k(x) = -2x^3 + 5x^2$ ; Find  $k(-2)$

16)  $h(x) = -2x^2 + 4$ ; Find  $h(3x)$

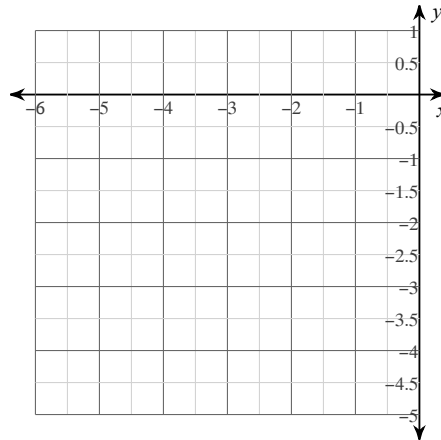
17)  $g(t) = t^2 - 4 + 2t$ ; Find  $g(t + 4)$

Sketch the graph of each function. Write the domain and range of each.

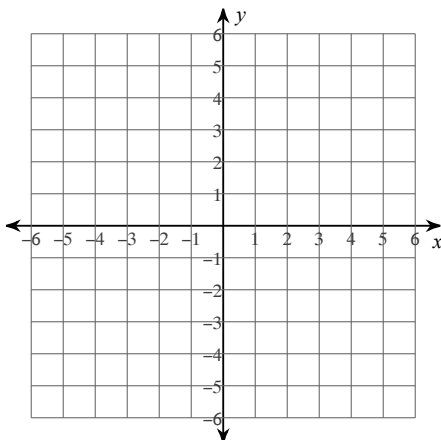
18)  $y = -2(x - 2)^2 + 2$



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



20)  $y = -|x| - 2$



21)  $y = 3|x - 1| + 2$

