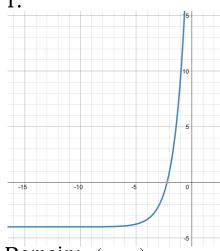
______ Date: _____ Name: __

Unit 7 Class Work



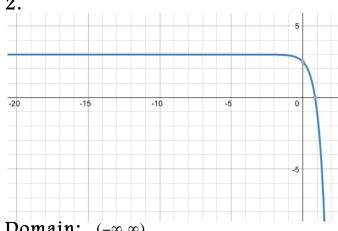


Domain: $(-\infty,\infty)$

Range: $(-4,\infty)$

Horizontal Asymptote: y = -4

2.



Domain: $(-\infty,\infty)$

Range: $(-\infty,3)$

Horizontal Asymptote: y = 3

60. C

61. H

75.
$$y = -5x^2 + 2$$

Explanation: If the vertex is (0,2), the graph is shifted 0 left/right and 2 up, thus the equation is $y = a(x-0)^2 + 2$ $y = ax^2 + 2$

$$y = a(x - 0)^{\frac{1}{2}} + 2$$

 $y = ax^{2} + 2$

Then substitute in your given point (1,-3) for (x,y) and solve for a

$$-3 = a(1)^2 + 2$$

 $-5 = a$

so the equation is $y = -5x^2 + 2$