

1-4 (No transformations) Answer each prompt and graph each function on the axes provided.

1.  $y = 2(0.5)^x$  (Do #5 next)

2.  $y = 4^x$  (Do #6 next)

y-intercept \_\_\_\_\_

y-intercept \_\_\_\_\_

x-intercept \_\_\_\_\_

x-intercept \_\_\_\_\_

Growth or Decay? \_\_\_\_\_

Growth or Decay? \_\_\_\_\_

Domain \_\_\_\_\_

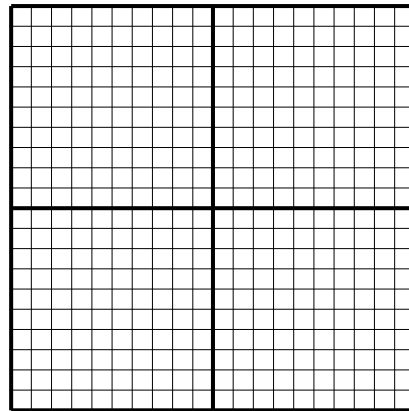
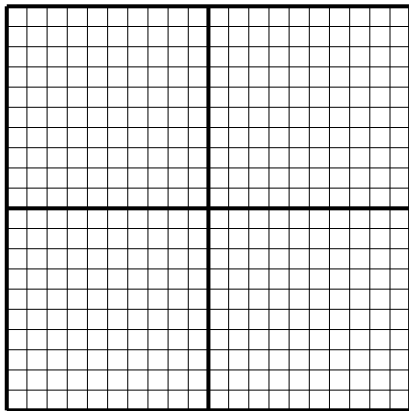
Domain \_\_\_\_\_

Range \_\_\_\_\_

Range \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_



3.  $y = 0.5(3)^x$  (Do #7 next)

y-intercept \_\_\_\_\_

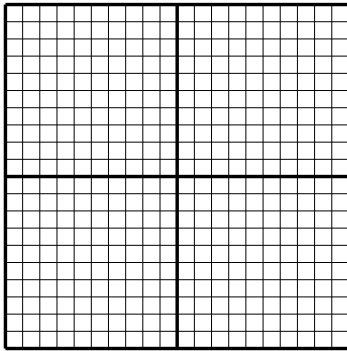
x-intercept \_\_\_\_\_

Growth or Decay? \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_



4.  $f(x) = 0.8^x$  (Do #8 next)

y-intercept \_\_\_\_\_

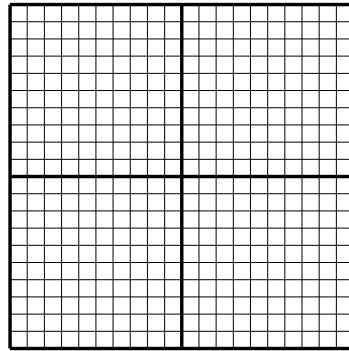
x-intercept \_\_\_\_\_

Growth or Decay? \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_



5-8. Apply transformations on the equations from Examples 1-4 to graph each function.

5.  $y = 2(0.5)^x + 3$

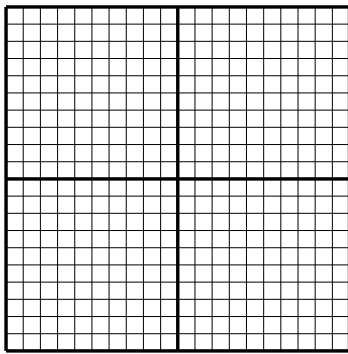
y-intercept \_\_\_\_\_

x-intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_



6.  $y = 4^{x-2}$

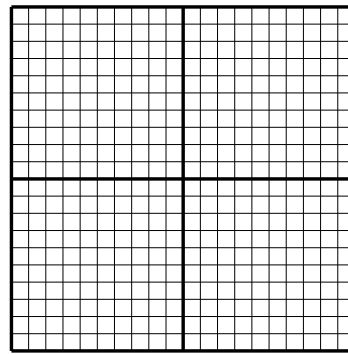
y-intercept \_\_\_\_\_

x-intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_



7.  $y = -0.5(3)^x - 4$

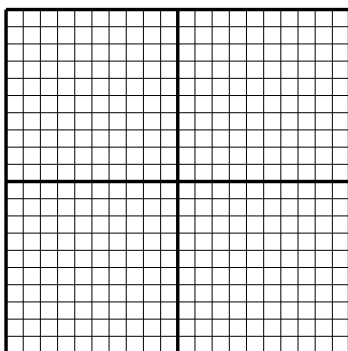
y-intercept \_\_\_\_\_

x-intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_



8.  $f(x) = -0.8^{x+2}$

y-intercept \_\_\_\_\_

x-intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Horiz. Asymptote \_\_\_\_\_

