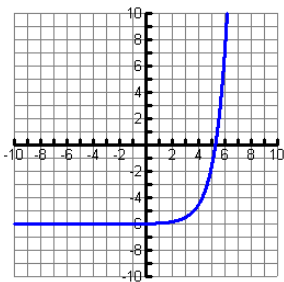


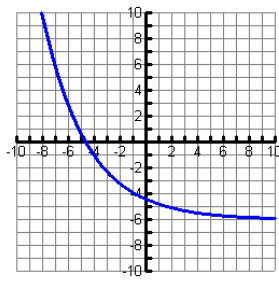
6.3 Day 1 Extra Practice

1. Label each function as either exponential growth or exponential decay.

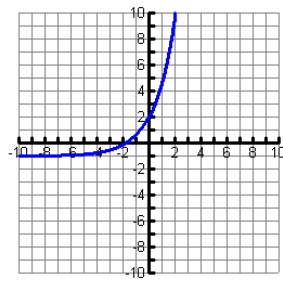
a. _____



b. _____



c. _____



d. _____

$$y = 3.2(0.9)^x$$

e. _____

$$f(x) = .35(1.98)^x$$

f. _____

$$y = 9\left(\frac{5}{2}\right)^x$$

g. _____

$$f(x) = \frac{9}{8}\left(\frac{8}{11}\right)^x$$

h. _____

$$y = 8(42)^x$$

i. _____

$$f(x) = .9(.15)^x$$

2. Divide each y-coordinate by the previous y-coordinate to find the **growth/decay factor** for each exponential function, then circle whether the table represents exponential growth or exponential decay.

a. Growth/Decay Factor _____ Exponential Growth or Exponential Decay?

x	1	2	3	4	5
y	3	6	12	24	48

a. Growth/Decay Factor _____ Exponential Growth or Exponential Decay?

x	-1	0	1	2	3
y	9	3	1	1/3	1/9

a. Growth/Decay Factor _____ Exponential Growth or Exponential Decay?

x	1	2	3	4	5
y	22	27.5	34.375	42.969	53.710

