Section 8.3 Worksheet

Match the equation with the graph.

1.
$$y = 2^x$$

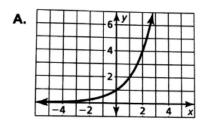
2.
$$y = 3^x$$

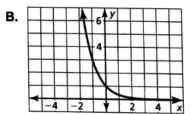
3.
$$y = 4^x$$

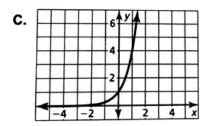
$$4. \ y = \left(\frac{1}{2}\right)^x$$

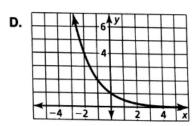
$$5. \ y = \left(\frac{1}{3}\right)^x$$

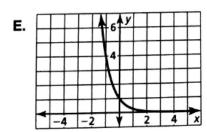
$$6. \ y = \left(\frac{1}{4}\right)^x$$

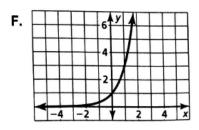












Tell whether the function represents exponential growth or exponential decay.

5.
$$y = 6^x$$

6.
$$y = 0.1^x$$

7.
$$y = 4^x$$

$$8. \ y = \left(\frac{1}{2}\right)^x$$

9.
$$y = \left(\frac{8}{5}\right)^x$$

10.
$$y = \left(\frac{1}{6}\right)^x$$

11.
$$y = 2(3)^x$$

12.
$$y = 8(0.8)^x$$

13.
$$y = 4\left(\frac{1}{4}\right)^x$$

Decay/Growth Factor:

Decay/Growth Factor:

Decay/Growth Factor:

y-intercept:

y-intercept:

y-intercept:

14.
$$y = 7\left(\frac{1}{2}\right)^x$$

15.
$$y = 5(9)^x$$

16.
$$y = \left(\frac{1}{6}\right)^x$$

Decay/Growth Factor:

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Decay/Growth Factor:

y-intercept:

y-intercept:

y-intercept:

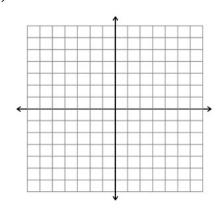
Graph the exponential function.

1.
$$y = 3^x$$

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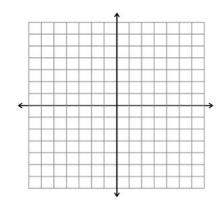
$$2. \ y = \left(\frac{1}{5}\right)^x$$

	2. y –
x	y



3.
$$y = 2(2)^x$$

x	y



$$4. y = 3\left(\frac{2}{3}\right)^x$$

