

Writing Exponential Functions

Write the exponential equation for the given description.

1. Initial value = 6, common ratio = 2

$$y = 6(2)^x$$

2. Initial value = 1, common ratio = .5

$$y = 1(.5)^x$$

3. Points (0, 7) and (1, 21)

$$y = 7(3)^x$$

4. Points (0, 9) and (1, 3)

$$y = 9\left(\frac{1}{3}\right)^x$$

5. Points (0, 12) and (1, 9)

$$y = 12\left(\frac{3}{4}\right)^x$$