

Growth from one

Use $y = a \cdot b^{(x-h)} + k$. Plot the supplied table in order, then sketch a smooth curve. The visible window is a finite sample.

$y = 1 \cdot 2^{(x - (0))} + (0)$. x values: -2, -1, 0, 1, 2.



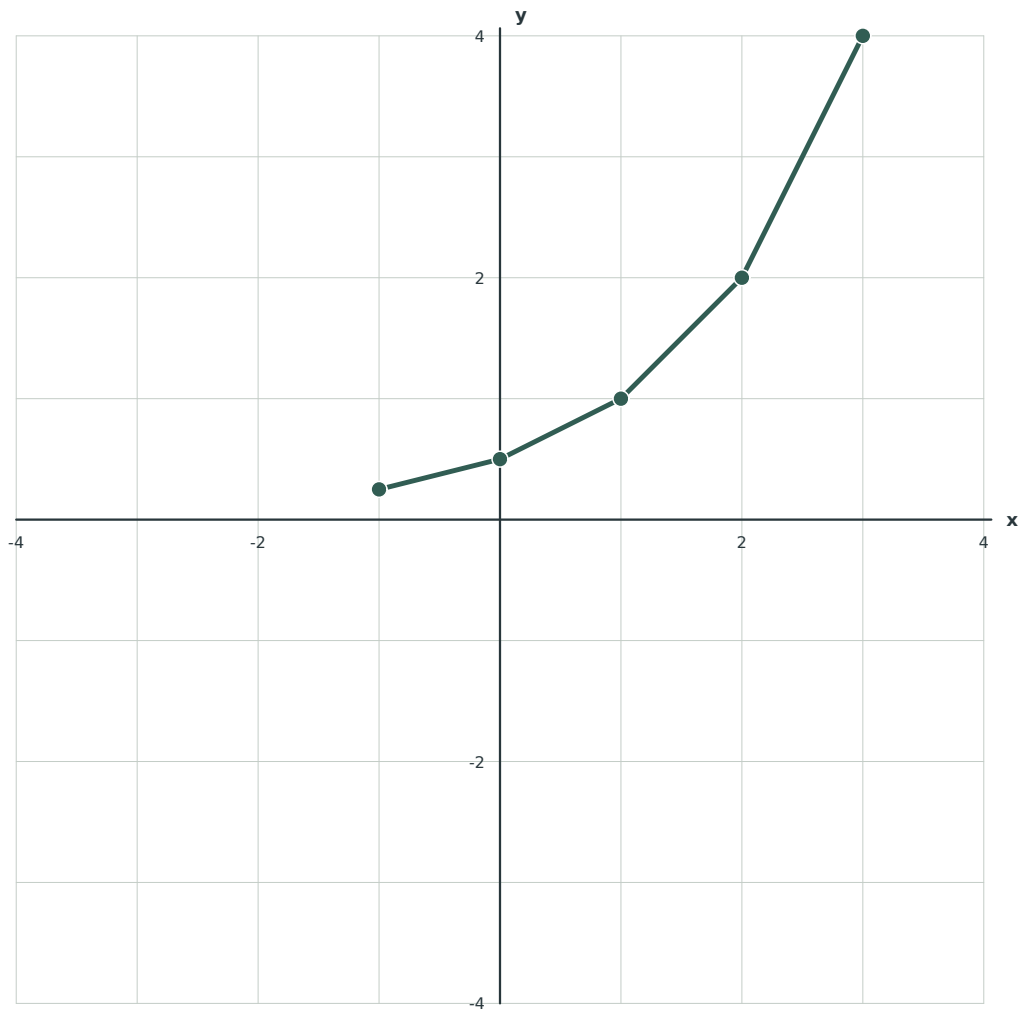
1. Complete the table values. y values: 1/4, 1/2, 1, 2, 4.
2. Identify the horizontal and vertical shifts. Horizontal shift $h=0$; vertical shift $k=0$.
3. Growth or decay? Growth because base > 1 .

Original practice data / coordinate units, not ruler measurements / physical printing not tested

Growth with a shift

Use $y = a \cdot b^{(x-h)} + k$. Plot the supplied table in order, then sketch a smooth curve. The visible window is a finite sample.

$y = 1 \cdot 2^{(x - (1))} + (0)$. x values: -1, 0, 1, 2, 3.



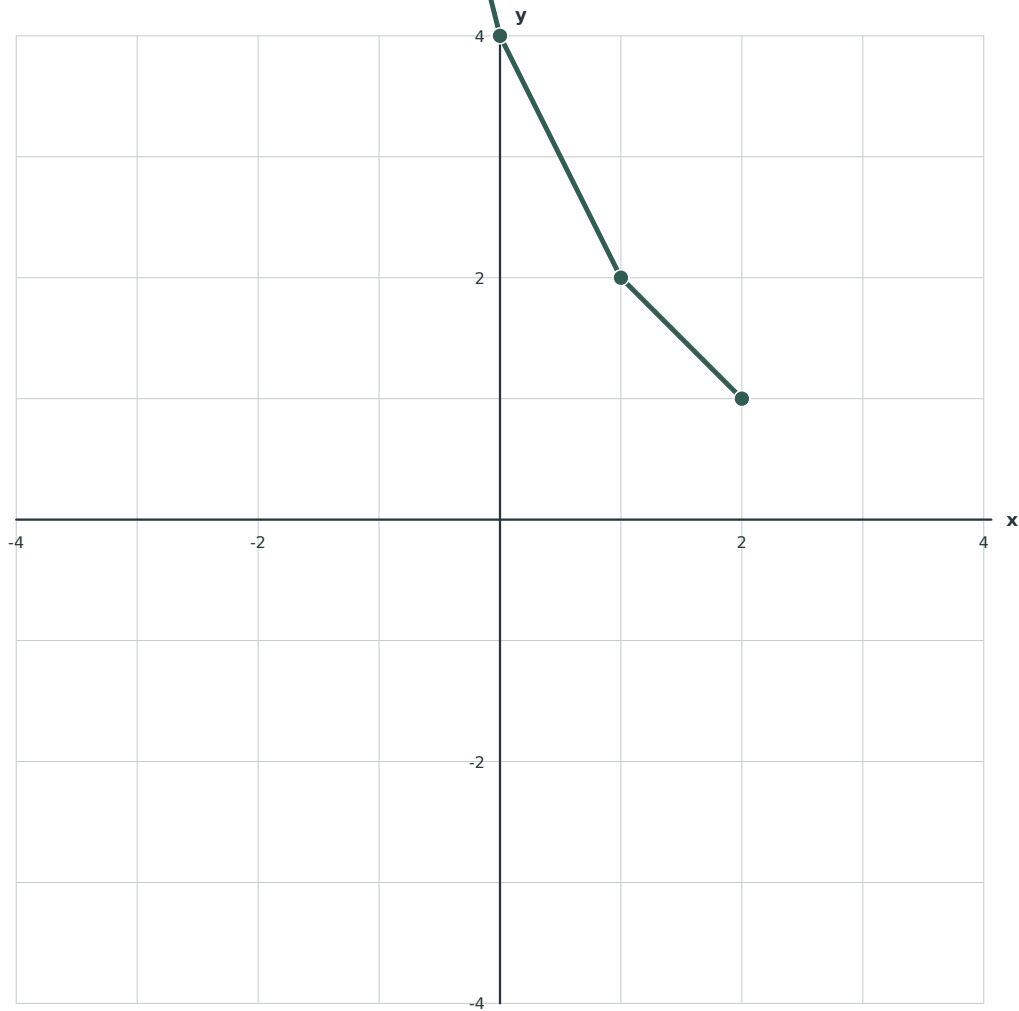
1. Complete the table values. y values: $\frac{1}{4}$, $\frac{1}{2}$, 1, 2, 4.
2. Identify the horizontal and vertical shifts. Horizontal shift $h=1$; vertical shift $k=0$.
3. Growth or decay? Growth because base > 1 .

Original practice data / coordinate units, not ruler measurements / physical printing not tested

Decay from four

Use $y = a \cdot b^{(x-h)} + k$. Plot the supplied table in order, then sketch a smooth curve. The visible window is a finite sample.

$y = 4 \cdot 1/2^{(x - (0))} + (0)$. x values: -2, -1, 0, 1, 2.



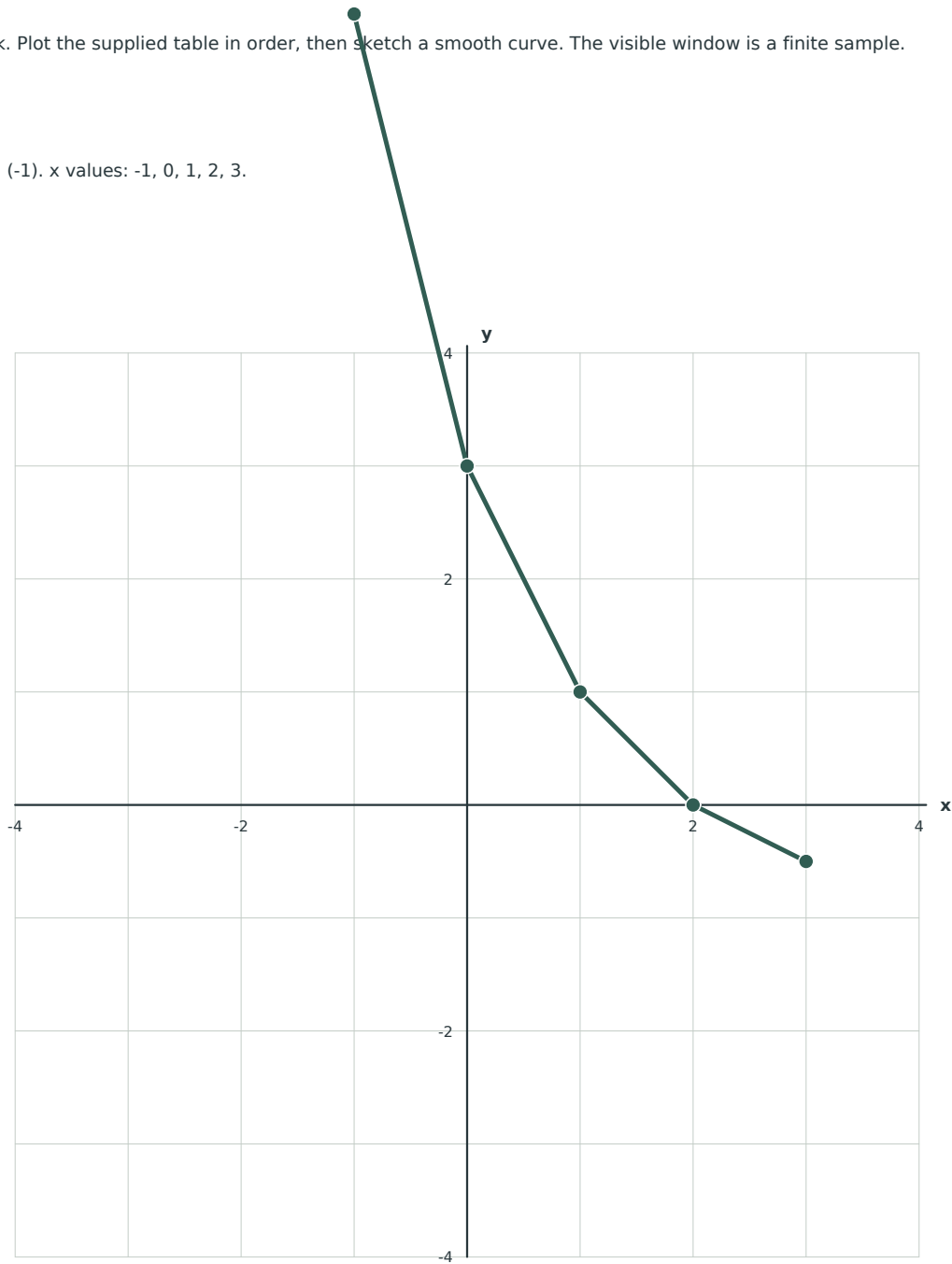
1. Complete the table values. y values: 16, 8, 4, 2, 1.
2. Identify the horizontal and vertical shifts. Horizontal shift $h=0$; vertical shift $k=0$.
3. Growth or decay? Decay because $0 < \text{base} < 1$.

Original practice data / coordinate units, not ruler measurements / physical printing not tested

Shifted decay

Use $y = a \cdot b^{(x-h)} + k$. Plot the supplied table in order, then sketch a smooth curve. The visible window is a finite sample.

$y = 2 \cdot 1/2^{(x - (1))} + (-1)$. x values: -1, 0, 1, 2, 3.



1. Complete the table values. y values: 7, 3, 1, 0, -1/2.
2. Identify the horizontal and vertical shifts. Horizontal shift $h=1$; vertical shift $k=-1$.
3. Growth or decay? Decay because $0 < \text{base} < 1$.

Original practice data / coordinate units, not ruler measurements / physical printing not tested