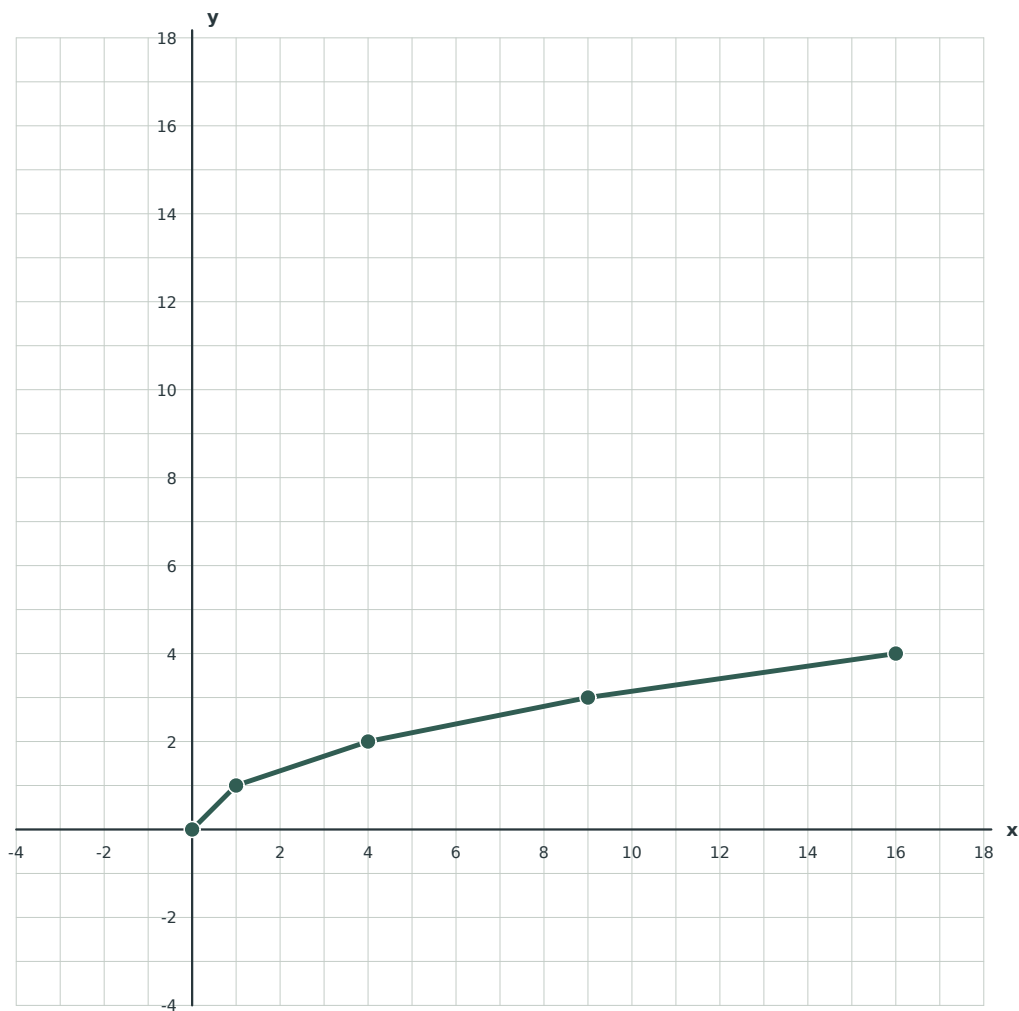


Basic square root

Use $y = a\sqrt{x-h}+k$. The endpoint is the first domain point. Plot the supplied perfect-square samples and join them with a smooth one-sided curve.

$$y = 1\sqrt{x - (0)} + (0). \text{ x values: } 0, 1, 4, 9, 16.$$



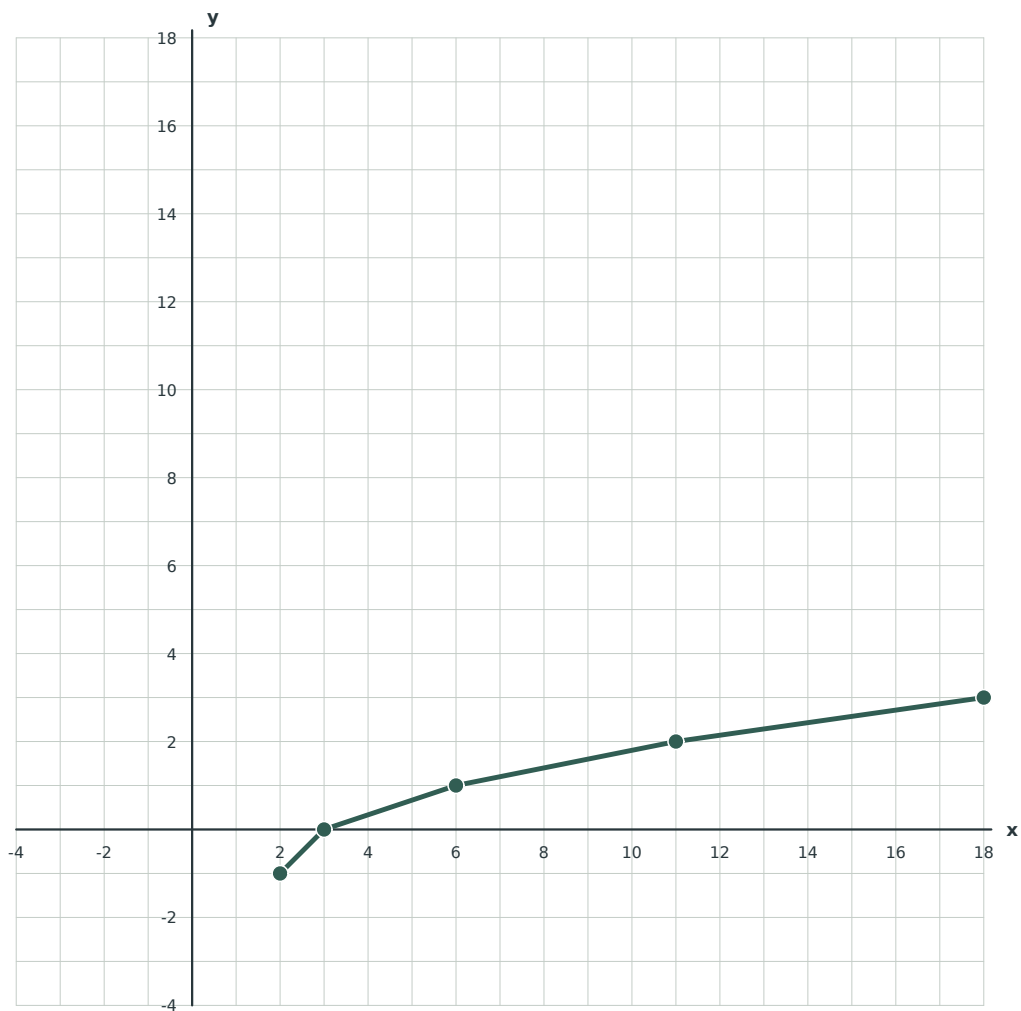
1. Locate the endpoint. Endpoint (0,0).
2. Complete the sample values. (0,0); (1,1); (4,2); (9,3); (16,4)
3. State the direction of the curve. Opens upward.

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

Shift right

Use $y = a\sqrt{x-h}+k$. The endpoint is the first domain point. Plot the supplied perfect-square samples and join them with a smooth one-sided curve.

$$y = 1\sqrt{x - (2)} + (-1). \text{ x values: } 2, 3, 6, 11, 18.$$



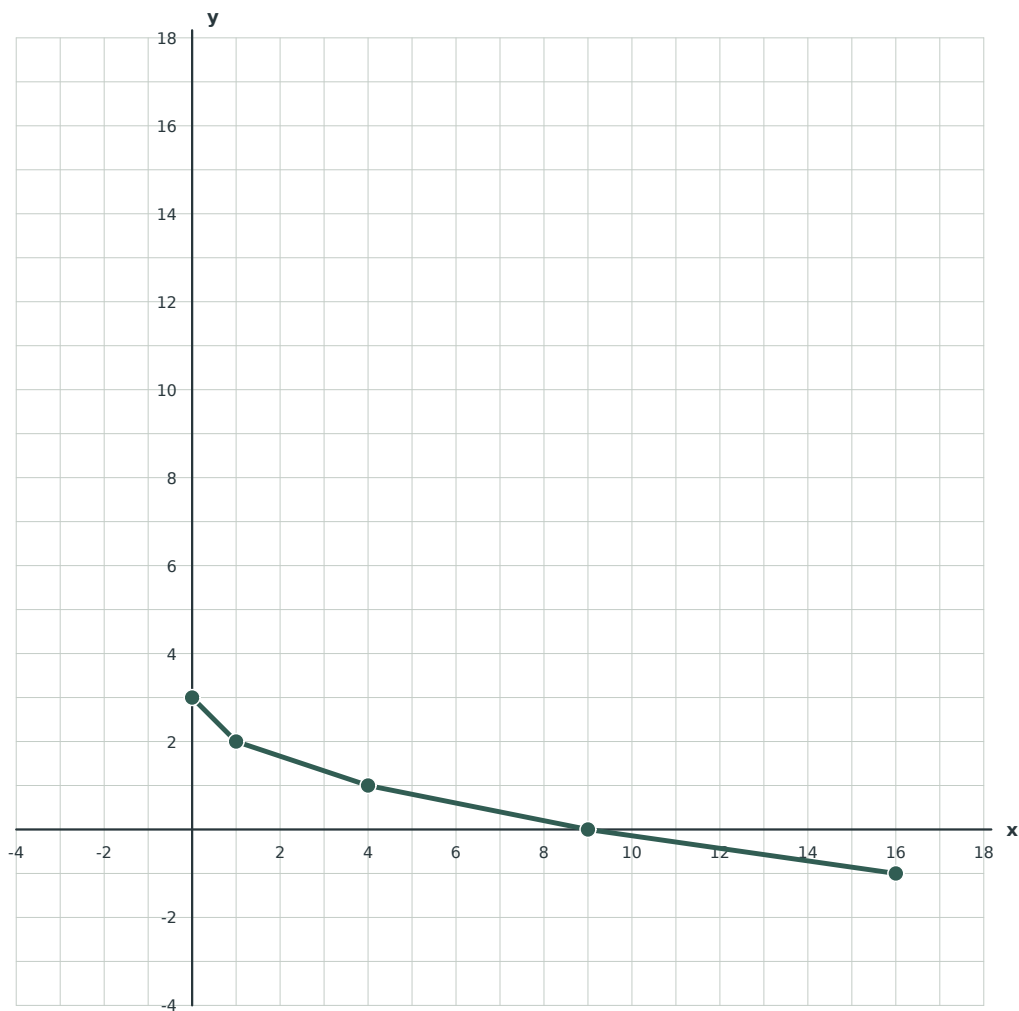
1. Locate the endpoint. Endpoint (2,-1).
2. Complete the sample values. (2,-1); (3,0); (6,1); (11,2); (18,3)
3. State the direction of the curve. Opens upward.

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

Reflected root

Use $y = a\sqrt{x-h}+k$. The endpoint is the first domain point. Plot the supplied perfect-square samples and join them with a smooth one-sided curve.

$$y = -1\sqrt{x - (0)} + (3). \text{ x values: } 0, 1, 4, 9, 16.$$



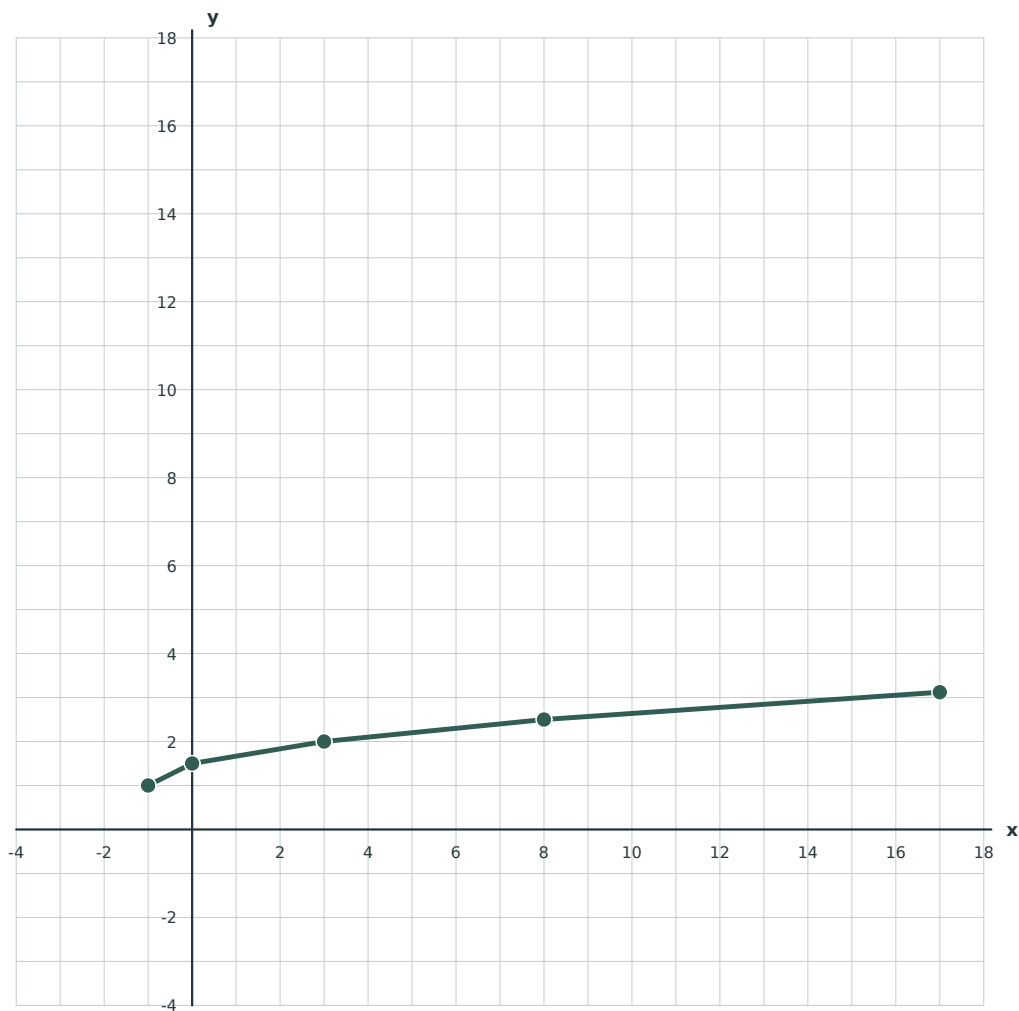
1. Locate the endpoint. Endpoint (0,3).
2. Complete the sample values. (0,3); (1,2); (4,1); (9,0); (16,-1)
3. State the direction of the curve. Reflects downward.

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

Narrower rise

Use $y = a\sqrt{x-h}+k$. The endpoint is the first domain point. Plot the supplied perfect-square samples and join them with a smooth one-sided curve.

$$y = 1/2\sqrt{x - (-1)} + (1). \text{ x values: } -1, 0, 3, 8, 17.$$



1. Locate the endpoint. Endpoint $(-1,1)$.
2. Complete the sample values. $(-1,1)$; $(0,3/2)$; $(3,2)$; $(8,5/2)$; $(17,78033/25000)$
3. State the direction of the curve. Opens upward.

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