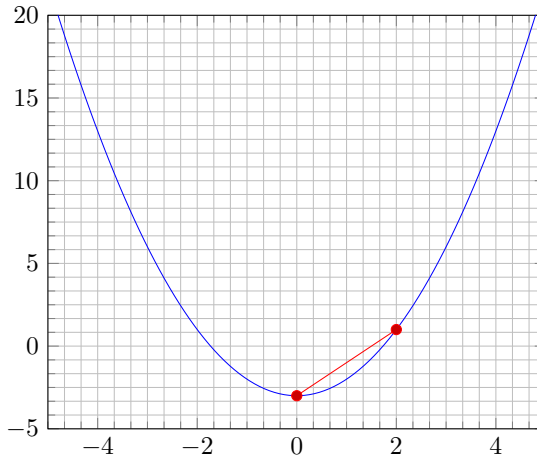


Quiz 1 solutions

Below is a graph of the function

$$f(x) = x^2 - 3.$$



(a) Compute $f(0)$.

$$f(0) = 0^2 - 3 = -3.$$

(b) Compute $f(2)$.

$$f(2) = 2^2 - 3 = 1.$$

(c) Plot the points $(0, f(0))$ and $(2, f(2))$ in the graph above.

See above.

(d) Draw the line segment between the two points you just plotted.

See above.

(e) Compute the slope of the line segment you just drew.

$$\frac{\text{rise}}{\text{run}} = \frac{1 - (-3)}{2 - 0} = \frac{4}{2} = 2.$$