



1.

Define and graph the function define by

$$2x^2 - 1 \text{ on the interval } (-, 2)$$

$$-\cos(x) + 3 \text{ on the interval } [2, 5]$$

$$\frac{1}{2}x + 1 \text{ on the interval } (5,)$$



2,

Graph the expression $z = 0.1x^2 + 0.5y^2$



3.

Here is a curve.

Define and graph the function

$$f(x) = |x - 2|$$

(There is an absolute value button in the palette.)



4.

Define the function

$$\text{pig}(x, y) = |x| + |y|$$

Evaluate $\text{pig}(3, 1)$, $\text{pig}(-2, 1)$



5.

Trick question.

Define the function $\text{trouble}(x) = x + 1$

Evaluate $\text{trouble}(3)$

Figure out what the problem is.

Fix the problem.

Evaluate $\text{trouble}(3)$.