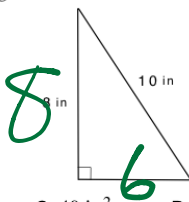


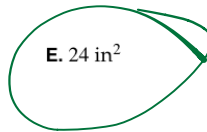
Please complete BW# 11.

prACTice 11

1. What is the area of the triangle below?



- A. 24 in B. 48 in² C. 40 in² D. 80 in² E. 24 in²



$$A = \frac{1}{2}bh$$

$$\frac{1}{2} \cdot 8 \cdot 6$$

$$24 \text{ in}^2$$

2. The sum of the product of two positive numbers and two times their difference is 16. Their difference is 3. What are the two numbers?

- A. 1 and 8 B. 4 and 5 C. 10 and 3 D. 2 and 5 E. 3 and 5

3. Tom needs to be at the airport in 30 minutes, but the airport is 27 miles away. What is the minimum speed he must drive in order to get there on time?

- A. 54 mph B. 56 mph C. 14 mph D. 27 mph E. 30 mph

prACTice 12

②

$$xy + 2(x - y) = 16$$

$$x - y = 3$$

③

27 miles in 30 min = $\frac{1}{2}$ hr

54 mph 1 hr

Pythagorean
Triple

$$3:4:5 \xrightarrow{*2} 6:8:10$$

$$5:12:13$$

$$7:24:25$$

$$8:15:17$$

What is the vertical line test?

How do I identify domain & range (ordered pairs)?

What is a function? How can I tell if a function is one-to-one?

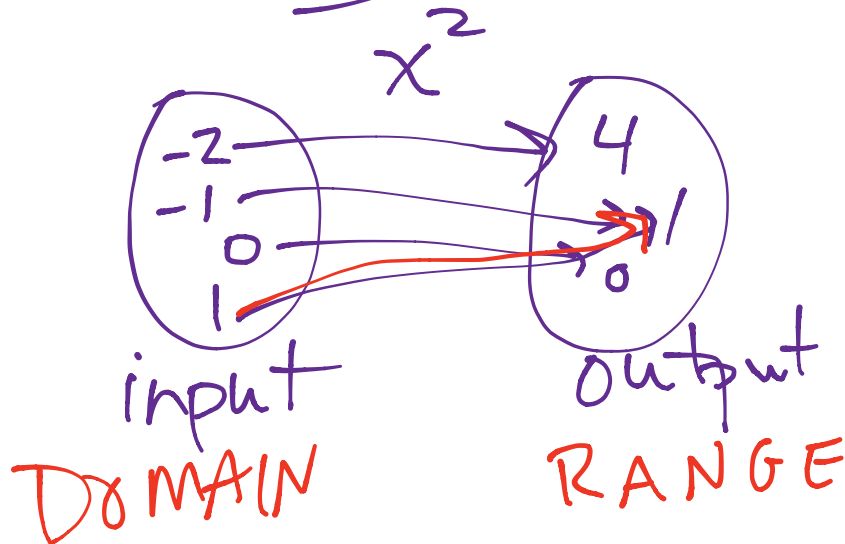
What is function notation?

$$y = f(x)$$

"f of x" NOT mult.

What are Quadrants used for?
How do I plot independent & dependent variables?
How do I map the domain & range?

Functions



\sqrt{x}

Domain: $x \geq 0$

$$f(x) = 2 - 5x$$

Find (evaluate) $f(-3)$

This is saying to replace x
w/ -3 & evaluate

$$f(-3) = 2 - 5(-3)$$

$$f(-3) = 2 - -15$$

$$f(-3) = 17$$

$$g(x) = x - x^2$$

$$g(-1) = -1 - (-1)^2$$
$$= -1 - 1$$

$$= -2$$

What is domain?

Can a function have more than 1 domain / range?

What is the vertical line test?

What is a FUNCTION?

How do I write a function notation?

$$f(x)$$

$$f(x) = 2x - 4$$