

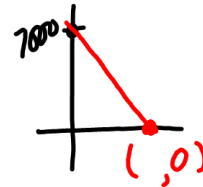
1.3. p 37

25. $t=0$ 2:08 pm $(0, 7000)$ $t=2$ 2:10 pm $(2, 4600)$

$$m = \frac{7000 - 4600}{0 - 2}$$

$$m = \frac{2400}{-2}$$

$$m = -1200$$

 $(0, 7000)$ 

$$y = -1200x + 7000$$

$$0 = -1200x + 7000$$

$$\frac{-7000}{-1200} = \frac{-1200x}{-1200}$$

$$5.83 = x$$

min

$$+ \begin{array}{r} 2:08:00 \\ :05:50 \\ \hline \end{array}$$

2:13:50 pm

45. p38

$$y = 6340x + 64,437$$

$$\frac{\text{Revenue}}{\text{Year}} \quad \frac{\$6340}{1 \text{ yr}}$$

$$17. \quad \frac{100 \text{ km}}{.99 \text{ L}} = 235 \text{ m}$$

$$y = mx \quad \frac{101.01}{235} = \frac{235 \text{ m}}{235}$$

$$.43 = m$$

$$y = .43x$$

$$\frac{2000}{4653}$$

$$33. \quad (0, 100) \\ (10, 0)$$

1.4 Functions

Relation : any set of ordered
pairs

Function $\{ (1,5) (2,7) (3,9) \}$

Not a function $\{ (-2,8) (-2,9) (-2,10) \}$

Function : pairing of one member
of domain (x) to one member of
the range (y)

$\{ (1,5) (2,7) (3,9) \}$

$\{ (1,5) (2,5) (3,5) \}$



Equation

$$y = 2x + 4$$

Function

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

Evaluate
 $x = 3$

$$y = 2(3) + 4$$

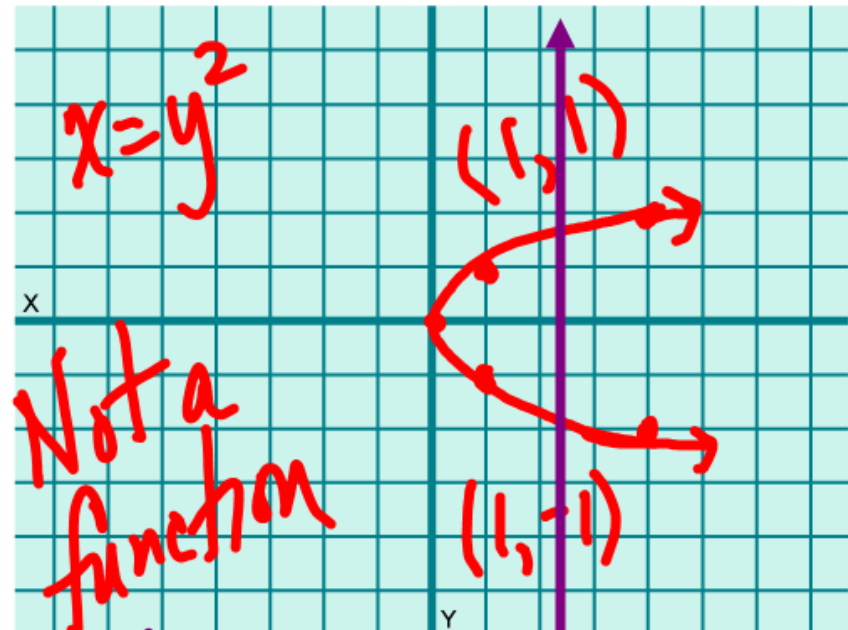
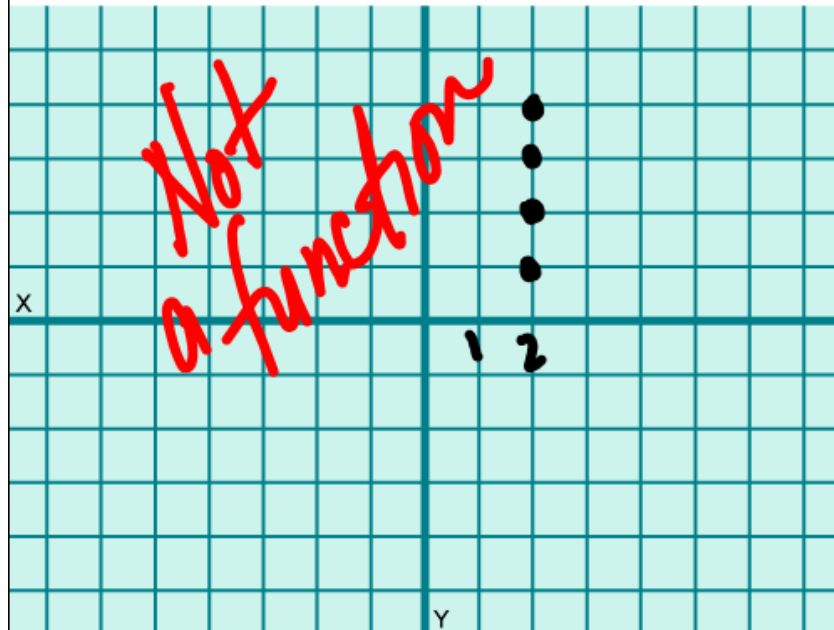
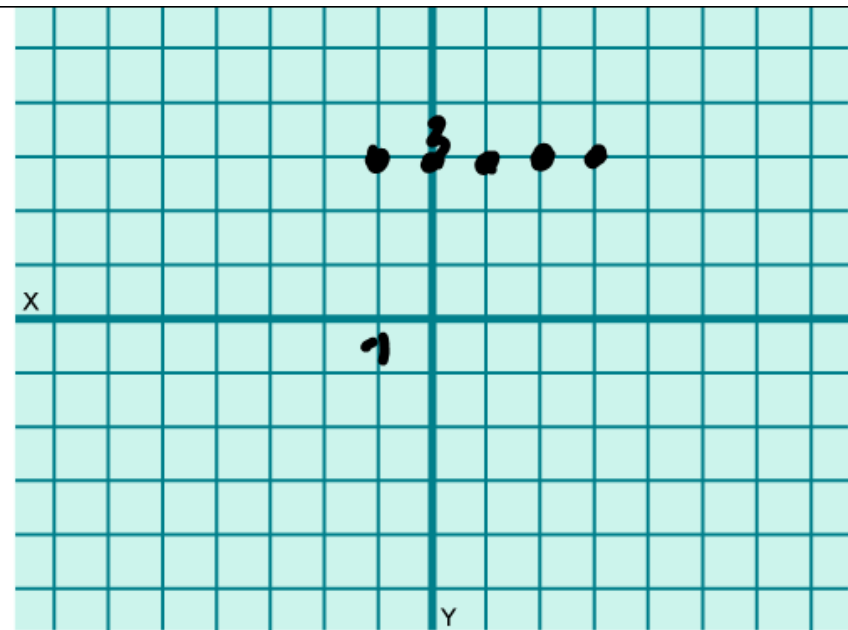
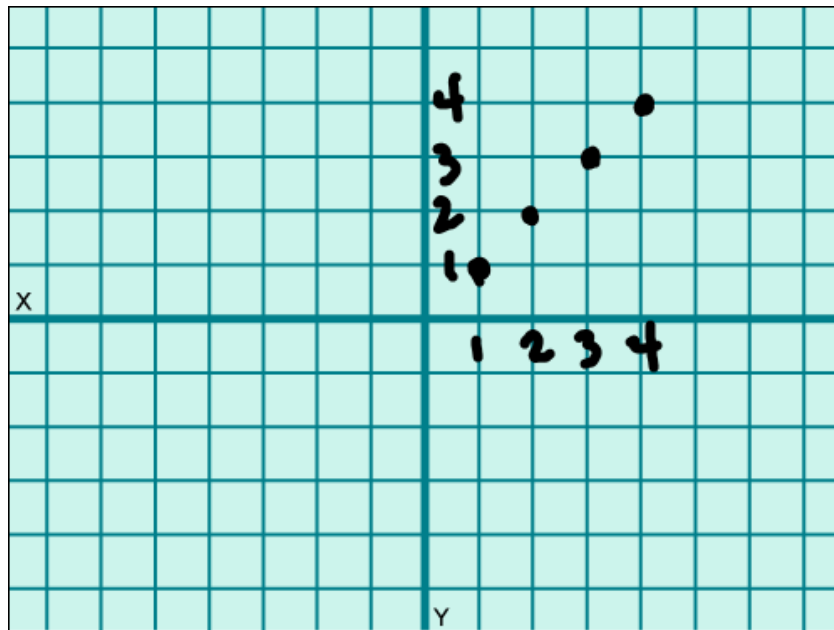
$$y = 10$$

$$(3, 10)$$

$$f(3) = 2(3) + 4$$

$$f(3) = 10$$

$$(3, 10)$$



Vertical Line Test

Domain

Division by zero

$\sqrt{\quad}$ of negative