12)

424<v<491 : B

491<v<575 : G

575<v<585 : Y

585<x<647 : O

647<x<700 : R

|v-528|<21

v-528<21

+528 +528

v<549

13) $m=-\frac{1}{4}$, $(\overset{x}{-4},\overset{y}{1})$

$y=mx+B$ Slope intercept form

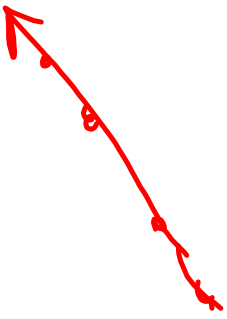
$y=-\frac{1}{4}x+B$

$1=-\frac{1}{4}(-4)+B$

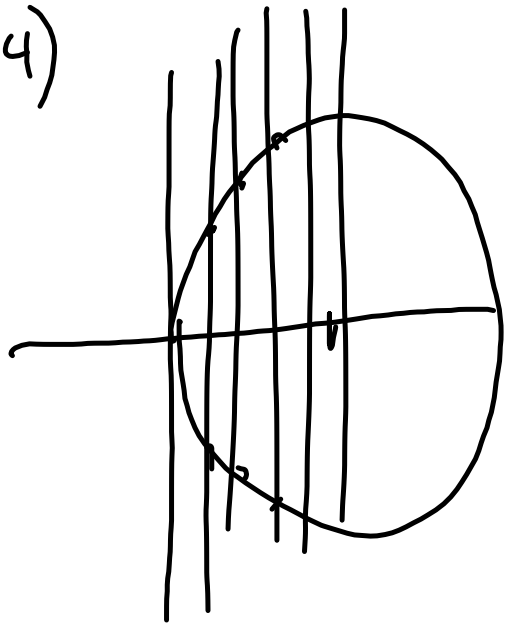
$1=1+B$

$B=0$

$y=-\frac{1}{4}x$



14)



function can only have 1 value per X

a. no

b. yes

b) $1, 4, 9, 16 \ldots \underline{25}$

$1^2, 2^2, 3^2, 4^2, \underline{5^2}$

16) $1+4(x+1)=5(x-2)$

$1+4x+4=5x-10$

$5+4x=5x-10$

$-10 \qquad -10$

$15+4x=5x \qquad 15=x$

$-4x$

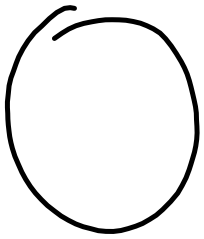
17) Square → $p = 64$ ft.

$$\frac{4x}{4} = \frac{64}{4}$$

$$x = 16$$

18) $\begin{bmatrix} 3 & 1 & 2 \\ 1 & 3 & 2 \\ 1 & 1 & 1 \end{bmatrix}$ $A = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix}$

$|A| = a(ei - fh) - b(di - fg) + c(dh - eg)$



19) $3,590 , raise = 2.5%

= 0.025

$\frac{1.025x}{1.025} = \frac{3,590}{1.025}$

$x = \$3,502$

100%

− 2.5%

97.5%