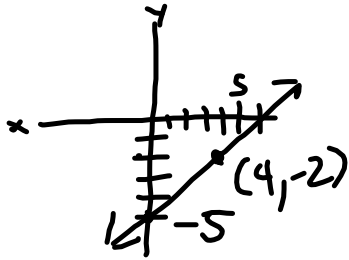


- ① Graph  $y = \frac{3}{4}x - 5$ .
- ② Graph  $3x + 2y = 12$ .
- ③ You are supposed to draw a line. What is the minimum amount of information you need in order to draw it?

$$\begin{array}{r|l} x & y \\ 0 & -5 \\ 4 & -2 \end{array}$$

①



$$y = \frac{3}{4}x - 5$$

$$0 = \frac{3}{4}x - 5$$

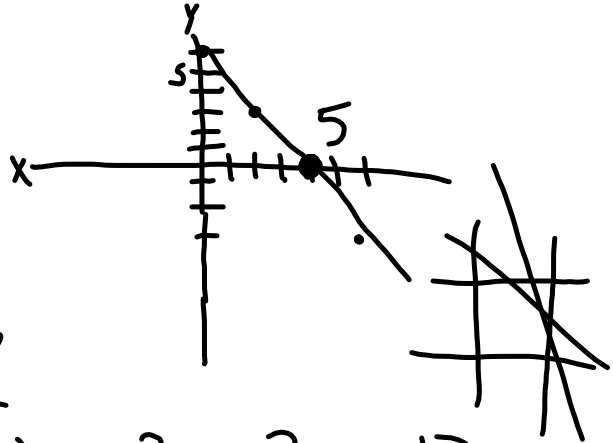
$$5 = \frac{3}{4}x$$

$$20 = 3x$$

$$6.\bar{6} = x$$

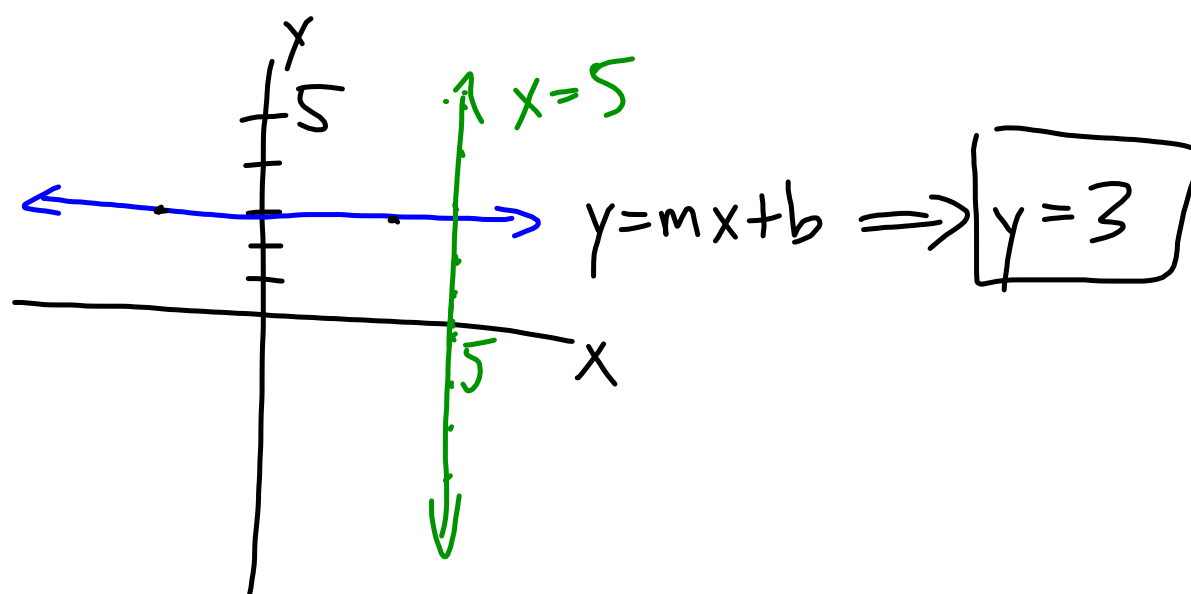
$$6\frac{2}{3} = \frac{20}{3} = x$$

②



$$3x + 2y = 12$$

x	y
0	6
4	0



$$D = 9000d + 27,000$$

$y = mx + b$

D: damage (dollars)

d: distance (miles)

vertical intercept \$27,000

slope 9,000  $\frac{\$}{\text{mile}}$

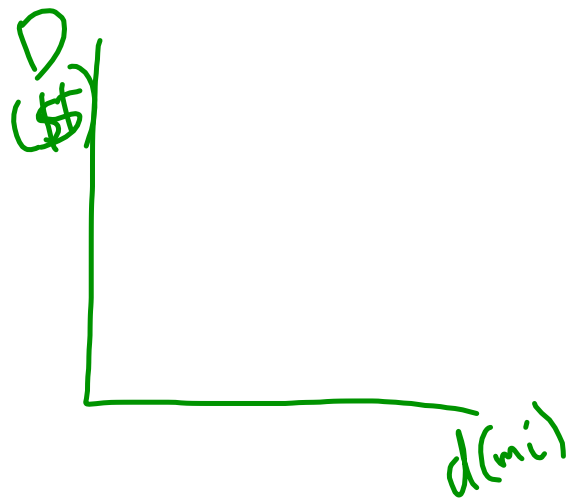


$$D = 9000d + 27,000$$

}
}
}
  
\$
\$
\$

$\left(\frac{\$}{\text{miles}}\right) \cdot \text{miles}$

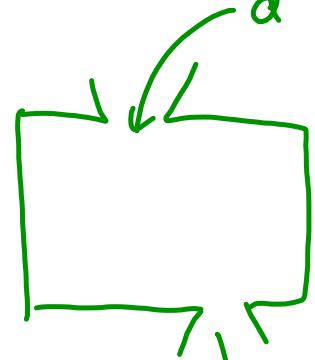
$9000d$   
}  
\$



$$D = 9000d + 27,000$$

D is a function  
of d.

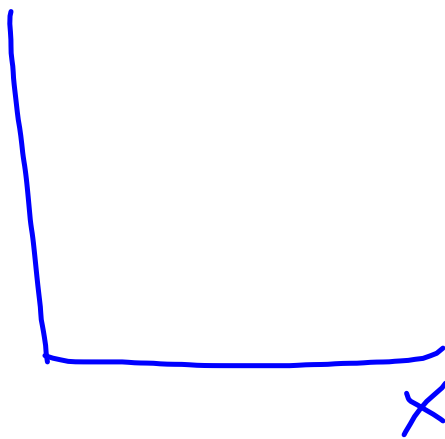
$$D(d) = 9000d + 27,000$$



D  
dependent  
variable

$$C(x) = 237x + 8000$$

$$R(x) = 4.59x \quad C, R$$



price, supply, demand

