Announcements

- · Last day for course evaluations (DSC Email)
- · Retesting next week (12/13-12/15)
- · Spring 2022 Registration is now open

* Infinitely many points on a line 4 The line itself extends infinitely * (5,2) is NOT on the line

2)
$$y = MX + b$$
 * Equation for a line (Slope-Intercept form)

- · Voursable m is called the slope
- · Variable b is called the y-intercept

$$M = rise = \frac{y_2 - y_1}{\chi_2 - \chi_1}$$

* Pick 2 points and label them:

$$(10,6)$$
 $(20,10)$

$$M = \frac{10 - 6}{20 - 10} = \frac{4}{10} = \frac{2}{5}$$

4) Y-intercept -> The y-coordinate of the point where the line crosses the y-axis

$$(0,2)$$

$$(x,y)$$

$$(b=2)$$

(5) Y=mx+b

$$V = \frac{2}{5}X + 2$$

(0,2)

(6) To check if true -> LHS = RHS

$$12 = \frac{2}{5}(25) + 2 = 12\sqrt{ }$$

$$\rightarrow \frac{2.25}{5} = \frac{50}{5} = 10$$

- Formulas: Slope-Intercept form: y=Mx+bSlope formula: $M=\frac{yz-y_1}{X_2-X_1}$
- · 2 Points that one on the line
- · y-intercept

①
$$Y = \frac{2}{5} \times 12$$
 (x, y) $(10, 6)$

$$\sqrt{1 - \frac{5}{2}} \times + 2$$
 $\sqrt{1 - \frac{5}{2}} \times - 2$



$$\sqrt{}$$

A=
$$\pi r^2$$

$$A = l \cdot w$$

$$= 12 \cdot 12$$

$$A = 17 \cdot b^2$$

(3) Subtraction:
$$12^2 - 17(6)^2$$

(4)
$$12^2 - \pi(6)^2 = 144 - \pi(6)^2$$

$$= 144 - \pi 36$$

$$= -\pi(6)^2 + 12^2 = 12^2 - \pi(6)^2$$