

## Bellwork:

$$A = \pi r^2 \quad C = 2\pi r$$

① Find the area & circumference  
if (a)  $r = 3 \text{ ft}$       (b)  $d = 20 \text{ in}$

$$A = 9\pi \text{ ft}^2$$

$$d = 20 \text{ in} \rightarrow r = 10 \text{ in}$$

$$A = \pi \cdot 10^2$$

$$A = 100\pi \text{ in}^2$$

$$C = 2\pi \cdot 10$$

$$C = 20\pi \text{ in}$$

② Solve for  $y$  :

$$2x - by = 9$$

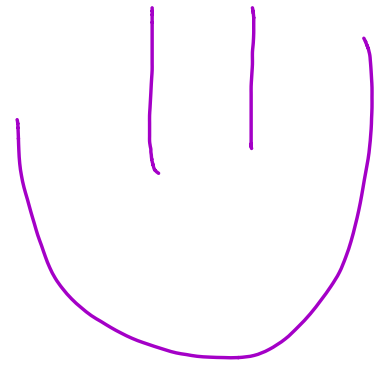
$$\begin{array}{r} -2x \\ 2x - by = 9 \\ \hline -by = 9 - 2x \end{array}$$

$$\begin{array}{r} -b \\ -by = 9 - 2x \\ \hline y = \frac{9 - 2x}{-b} \end{array} \text{ OR}$$

$$y = \frac{9}{-b} + \frac{2}{b}x$$

① Write the formula for area of a circle.

② Solve:  $y < x$   
 $-5x = 3x - 24$



③ Solve for  $y$ :  $5x + 2y = 10$

$$A = \pi r^2$$

$$r = 3 \text{ ft}$$

$$A = \pi \cdot (3 \text{ ft})^2$$

$$A = 9\pi \text{ ft}^2 \text{ units}$$

$$C = 2\pi r$$

$$C = 2\pi \cdot 3$$

$$C = 6\pi \text{ ft}$$

$$(b) \quad d = 20 \text{ in} \quad d = 2r$$

$$r = 10 \text{ in}$$

$$A = \pi r^2$$

$$A = \pi \cdot 10^2$$

$$A = 100\pi \text{ in}^2$$

$$C = 2\pi r$$

$$C = 2\pi \cdot 10$$

$$C = 20\pi \text{ in}$$

Solve for y:

$$ax + by = c$$

$$-ax$$

$$-ax$$

$$by = \frac{c}{b} - \frac{ax}{b}$$

$$y = \frac{c - ax}{b}$$

OR

$$y = \frac{c}{b} - \frac{a}{b}x$$