

11-19-19

Solve the system of equations by **elimination**.

$$\begin{aligned} 1. \quad & 3x - 5y = 37 \\ & -2x + 4y = -26 \end{aligned}$$

Solve the system of equations by **substitution**.

$$\begin{aligned} 2. \quad & 5x + 4y = 32 \\ & y = 9x - 33 \end{aligned}$$

Solve the system of equations by elimination.

$$\begin{aligned} 1. \quad & (3x - 5y = 37) \rightarrow \cancel{6x} - 10y = 74 \\ 3. \quad & (-2x + 4y = -26) \rightarrow + \cancel{-6x} + 12y = -78 \end{aligned}$$

$$\frac{2y}{2} = \frac{-4}{2}$$

$$y = -2$$

$$3x - 5(-2) = 37$$

$$\begin{aligned} 3x + 10 &= 37 \\ -10 \quad -10 & \\ \hline \end{aligned}$$

$$\frac{3x}{3} = \frac{27}{3}$$

$$x = 9$$

(9, -2)

check

$$\begin{aligned} -2(9) + 4(-2) &= -26 \\ -18 - 8 &= -26 \\ -26 &= -26 \checkmark \end{aligned}$$

Solve the system of equations by substitution.

$$2. \ 5x + 4y = 32$$

$$y = \underline{9x - 33}$$

$$5x + 4(9x - 33) = 32$$

$$5x + 36x - 132 = 32$$

$$41x - 132 = 32$$
$$\quad +132 \quad +132$$

$$\frac{41x}{41} = \frac{164}{41}$$

$$x = 4$$

$$y = 9(4) - 33$$

$$y = 36 - 33$$

$$y = 3$$

(4, 3)

check

$$5(4) + 4(3) = 32$$

$$20 + 12 = 32$$

$$32 = 32 \checkmark$$

7 Homework + 8 Entry Task

Start with 20 points...

-2 for each MISSED homework or entry task

-1 for each LATE homework

... Write your total score /20 under your name