

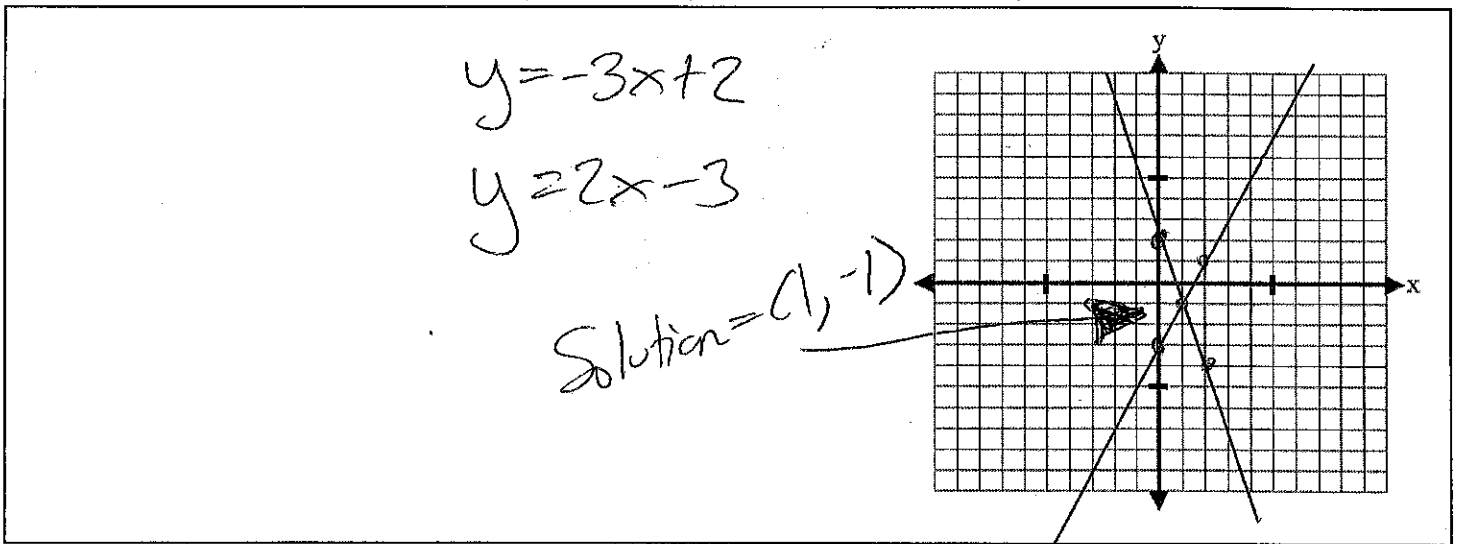
TABLE - Put an example of solving in a table (Worksheets# 1, 2, 5)

Chubby Bunny: Weighs 5 pounds, gains 3 per year
 Cat: Weighs 19 pounds, gains 1 per year

X	0	1	2	3	4	5	6	7	8
y _{bunny}	5	8	11	14	17	20	23	26	29
y _{cat}	19	20	21	22	23	24	25	26	27

Solution = (7, 26)
 In 7 years they will both weigh 26 pounds

GRAPH - Put an example of solving by graphing (Worksheets# 1, 2, 5, 7b)



SUBSTITUTION - Put two examples of solving using substitution: one example where only one equation has an isolated variable, one example of equal values where both equations have the same variable isolated). (Worksheets# 4, 5, 7b)

<p> $y = 4x + 3$ $y = -x - 2$ Substitute $4x + 3$ for y $4x + 3 = -x - 2$ $\quad -3 \quad \quad -3$ $4x = -x - 5$ $+x \quad +x$ $5x = -5$ $\frac{5x}{5} = \frac{-5}{5}$ $x = -1$ $y = 4(-1) + 3$ $y = -4 + 3$ $y = -1$ Solution: $(-1, -1)$ ✓ </p>	<p> $2x + 2y = 14$ $y = 2x - 5$ Substitute $2x - 5$ for y $2x + 2(2x - 5) = 14$ $2x + 4x - 10 = 14$ $6x - 10 = 14$ $6x = 24$ $\frac{6x}{6} = \frac{24}{6}$ $x = 4$ $y = 2(4) - 5$ $y = 8 - 5$ $y = 3$ $2(4) + 2(3) = 14$ $8 + 6 = 14$ Solution: $(4, 3)$ ✓ </p>
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ELIMINATION - Put two examples of solving using elimination: one example where you just have to add/subtract, one example where you have to multiply first. (Worksheets# 6, 7, 7b)

$\begin{array}{r} 3x + 4y = 12 \\ + (3x - 4y = -12) \\ \hline 6x = 0 \\ \frac{6}{6} \quad \frac{0}{6} \\ \hline x = 0 \end{array}$ $\begin{array}{r} 3(0) + 4y = 12 \\ 4y = 12 \\ \frac{4}{4} \\ \hline y = 3 \end{array}$ $\begin{array}{r} 3(0) - 4(3) = -12 \\ 0 - 12 = -12 \\ \hline \smile \end{array}$	$\begin{array}{r} 3(2x + 3y = 11) \rightarrow 6x + 9y = 33 \\ 2(3x + 4y = 14) \rightarrow 6x + 8y = 28 \\ \hline \hline y = 5 \end{array}$ $\begin{array}{r} 2x + 3(5) = 11 \\ 2x + 15 = 11 \\ -15 \quad -15 \\ \hline 2x = -4 \\ \frac{2}{2} \quad \frac{-4}{2} \\ \hline x = -2 \end{array}$ $\begin{array}{r} 3(-2) + 4(5) = 14 \\ -6 + 20 = 14 \\ \hline \smile \end{array}$
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WORD PROBLEM - Put an example of a word problem where we defined variables, wrote a system of equations, and solve. (Worksheets# 1-7)

In the octopus & starfish tank, there are 65 legs and 10 animals.

Let $x = \#$ of octopi, $y = \#$ of starfish

Then, $5(x + y) = 10 \rightarrow 5x + 5y = 10$
 $8x + 5y = 65 \rightarrow (8x + 5y = 65)$

$$\begin{array}{r} 5x + 5y = 10 \\ -3x = -15 \\ \hline -3 \quad -3 \\ \hline x = 5 \end{array}$$

$$\begin{array}{r} 5x + 5y = 10 \\ y = 5 \\ 8(5) + 5(5) = 65 \\ 40 + 25 = 65 \end{array}$$

Include any other examples/notes you'd like below.

Study!