

Solve this system of equations using Elmination. Solve this system of equations using Elmination. 4(7c - 3d = -3) 28c - 12d = -12 3(6c + 4d = 27) 4(8c + 122 = 8) 4bc = 69 4bc = 69 4bc = 69 4bc = 40 4bc = 27 4bc = 27 4bc = 27 4bc = 1.5 (1.5, 4.5) 4d = 18 4d = 18 4d = 45

Solve this system of equations using Elmination.

$$3(4X - 6Y = 66)$$

 $2(6X - 9Y = -45)$

$$\frac{12x - 18y = 198}{0 = 288}$$
NO SOL

Solve this system of equations using Elmination. First eliminate all denominators by using the LOM of the two denominators in each equation. $\begin{array}{rcl}
\hline
\begin{pmatrix}
2x \\
3 \\
\hline
\end{pmatrix}
+ \frac{7y}{12} &= 26 \\
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\end{pmatrix}
& 8 \times + y = 3/2 \\
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& 9 \times -15y = 246 \\
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& 9 \times -528 \\
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& 9 \times -528$ On a farm the only animals are cows and chickens. There are a total of 72 animals. These animals have a total of 228 legs.

How many chickens and how many cows are there?

$$2(C+H = 72)
42 = C = # cows
30 = H = # CHICKONS
2C+2H = 144
$$\frac{2C}{2} = \frac{84}{2}$$

$$C = 42$$$$

Write a system of equations that has the following solution: (-8,10)

pick any coefficients for x and y that you want. Then replace x with -8 and y with 10 to find the constant.

$$2/x - 14y = 21(-8) - 14(10) \rightarrow 21x - 14y = -308$$

 $15x + 30y = 15(-8) + 30(10) \rightarrow 15x + 30y = 180$

Suppose you didn't know how to solve a system of equations using Substitution, how would you solve this system of equations using Elimination?

$$y = 4x + 21 \qquad 3x + 8y = -7$$

$$-4x - 4x - 4y = -21 \qquad \text{Multiply second equation by 8}$$

$$and subtract.$$

$$(-5, 1) \qquad -\frac{3x + 8y = -7}{-32x + 8y = 168}$$

$$35x = -\frac{175}{35} \times = -5$$

$$80x = 100 \text{ y} \Rightarrow \qquad y = 4(-5) + 1 = -20 + 31$$

$$y = -1$$