Bell Work 3-18-19

A-REI.3.5

Pilar says that the two linear systems below have the same solution. Is she correct?

have the same solution. Is she correct?

(214) Explain.

(3x + 2y = 2)5
(15x + 4y = 6)-3 and
$$\begin{cases}
3x + 2y = 2 - 4 & -12x - 8 = -8 \\
11x + 8y = 10
\end{cases}$$

$$-12x - 8x - 12 = -8$$

$$-12x - 12x - 12x$$

Factoring to Solve Quadratic Equations

$$(y+6)(y-4)=0$$

$$\frac{3f}{3} = -\frac{2}{3}$$

$$\int_{-\infty}^{\infty} \frac{1}{3}$$

$$f+2)(f-5)=0$$

$$\frac{6}{3} = -\frac{2}{3}$$

$$3m(2m+9)=0$$

$$8m = 0$$
 $2m + 9 = 0$
 $-9 - 5$
 $-9 = 9$
 $2m = 9$
 $2m = 9$

Solve by factoring.

Solve by factoring.

$$A = | B = -15$$
 (= 56 $A = 1$ | $B = 2$ (= -19 $A^2 - 15a + 56 = 0$ $A^2 + 2n - 15 = 0$

$$w^{2} + w = 12$$

$$-12 - 12$$

$$W^{2} + u - 12 - 0$$

$$A = 1 \quad 13 = 1 \quad (-, -12)$$

$$-12 \quad 1$$

$$1(12)$$

$$2(6)$$

$$3(4) \quad 4 - 3$$

$$(u + 4)(u - 3) - 0$$

$$43 + 3$$

$$u = 3$$

$$w = -4$$

$$w = 3$$

$$w^{2} + w = 12$$

$$-12 - 12$$

$$W^{2} + u - 12 - 0$$

$$A = 1 \quad 13 = 1 \quad (--12)$$

$$-12 \quad 1 \quad 1$$

$$1(12)$$

$$2(6)$$

$$3(4) \quad 1 \quad 4 - 3$$

$$(u + 4)(u - 3) - 0$$

$$W^{4} + y = 0$$

$$-13 + 3$$

$$(u + 4)(u - 3) - 0$$

$$W^{4} + y = 0$$

$$W^{2} + w = 12$$

$$+ 12$$

$$3j^{2} - 20j = -12$$

$$+ 12 = 0$$

$$3(3 - 2) \quad (-12)$$

$$3(6) + 20$$

$$((6) \cdot 3(12) \cdot 3(12) \cdot 3(12)$$

$$2(18) \cdot -2 - 18$$

$$2(18) \cdot -$$

Bell Work 3-19

V = vegetarianC = chicken 36(10) = 360

A-REI.3.6

A restaurant serves a vegetarian and a chicken lunch special each day. Each vegetarian special is the same price. Each chicken special is the same price. However the price of the vegetarian special is different from the price of the chicken special.

- On Thursday, the restaurant collected \$467 selling 21 vegetarian specials and 40 chicken specials.
- On Friday, the restaurant collected \$484 selling 28 vegetarian specials and 36 chicken specials.

What is the cost of each lunch special?

$$36(5) = 180 360 = 9$$

$$Th 967 = 21 v + 90 c (-9)$$

$$-984 = -189 v - 360 e$$

$$984 = -189 v - 360 e$$

$$910 = 280 v + 360 c$$

$$910 = -189 v - 360 e$$

$$910 = -189 v$$

The area of the rubber coating for a flat roof was 96 ft². The rectangular frame the carpenter built for the flat roof has dimensions such that the length is 4 feet longer than the width. What are the dimensions of the frame?

longer than the width. What are the dimensions of the frame? (x+12)(x-8)=6 (x+12=0)(x-8)=6 (x+12=0)(x-9)=6 (x+12=0)(x-12=0)(x-12=0) (x+12=0)(x-12=0)(x-12=0) (x+12=0)(x-12=0)(x-12=0) (x+12=0)(x-12=0)(x-12=0) (x+12=0)(x-12=0)(x-12=0) (x+12=0)(x-12=0)(x-12=0) (x+12=0)(x-12=0)(x-12=0) (x

Write each equation in standard form. Then solve.

$$21x^{2} + 5x - 35 = 3x^{2} - 4x$$

$$-3x^{2} + 9x - 35 = 0$$

$$A = 18 \quad B = 9 \quad C = -35$$

$$-630 \quad 9$$

$$18(35)$$

$$7(90)$$

$$10(63)$$

$$21(30) \quad 30-21$$

$$18 \quad 18 \quad 18 \quad 18$$

$$\frac{30}{18} \Rightarrow \frac{5}{3}$$

$$\frac{-21}{18} \Rightarrow \frac{-7}{6}$$

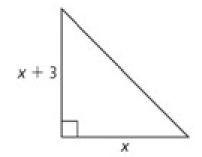
$$(x + \frac{5}{3}) (x - \frac{7}{6}) = 0$$

$$X = -\frac{5}{3}$$

$$x = \frac{7}{6}$$

Find the value of x as it relates to each rectangle or triangle.

Area = 20 in.^2





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