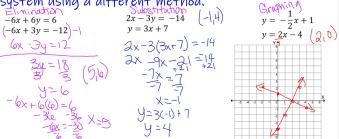
Choose a method (graphing, substitution, or elimination) to solve each system of equations. You must solve each system using a different method.



Page 1

The perimeter of a rectangle is 60 feet.

The length is twice the width.

Write a system of linear equations to represent the situation. Solve your system to find the

dimensions of the rectangle.

l=longth
W=wdth

l=2w

2(2W)+2W=60 6W=60 W2 44 0=1

Page 2

A bank teller is counting \$20 bills & \$10 bills. There are 16 bills that total \$200. Write a system of linear equations to represent the situation. Solve your system to find the number of each denomination of bill.

$$X = $20 \text{ bills}$$
 $X + y = 16$
 $Y = 10 bills $20x + 16y = 200$
 $4 = 200 \text{ bills}$ $10x = 10$
 $12 = 10 \text{ bills}$ $10x = 40$

Page 3

The perimeter of a rectangle is 42 cm.
The length is 1 more than 3 times the width.

Irite a system of linear equations to represent

Write a system of linear equations to represent the situation. Solve your system to find the dimensions of the rectangle.

l=lergth 2l+2w=42 w=width l=1+3w

Page 4

The sum of two numbers is 35.

The second number is 4 times the first number. Write a system of linear equations to represent the situation. Solve your system to find the value of each number.

The sum of two numbers is 20.
The second number is 3 times the first number.
Write a system of linear equations to represent

Write a system of linear equations to represent the situation. Solve your system to find the value of each number.

$$X = 1^{St} # X + Y - 20$$

 $Y = 2^{nd} # Y = 3x$

Page 5

Page 6

A store sold 28 pairs of shoes for a total of \$2220. Style A are \$70 per pair and stlye B are \$90 per pair. Write a system of linear equations to represent the situation. Solve your system to find how many of each style were sold.

Page 7

Example 2: t=trips to gym 20+2t=0 c=total cost 4t=0 20+2t=2t 20=2t 20=2t 20=2t 20=2t20=2t

Page 9

Level 4

Your car's manual recommends that you use at least 89-octane gasoline in your 16 gallon tank. Regular gasoline is 87-octane & premium gasoline is 92-octane.

Write a system of linear equations to represent the situation. Solve your system to find how many gallons of regular gasoline & premium gasoline you need to mix to produce 16 gallons of 89-octane.

Produce 16 gallons of 89-octane.

T= regular
P= premium 87 r +92p=69.16

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