Journal Entry:

A student solved an equation and found that the variable was eliminated in the process. How would the student know whether the equation is an identity or a no solution? Explain and give examples of each.

Section 2 - 5 Literal Equations and Formulas

Students will be able to rewrite and use literal equations and formulas.

You are ordering pizzas and sandwiches. Pizza is \$10 and sandwiches are \$5. You have a budget of \$80. How many sandwiches can you buy if you get 4 pizzas? 5 pizzas?

10p + 6s = 80 30 30

We are going to take a look at how to solve <u>literal equations</u>, which have more than one variable.

What was the equation for the previous problem? Solve for \S .

$$-100 + 55 = 80$$

$$-100$$

$$5 = 80 + 100$$

$$5 = 80 + 100$$

$$5 = 80 + 100$$

$$5 = 10 - 20$$

Solve for m:

$$4 = 2m - 5n$$

$$+6n + 5n$$

$$4 + 6n = 4$$
What are the values of m when $n = -2, 0, 2$

$$M = 4 + 6(-2)$$

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Perimeter of a rectangle:
$$P=2L+2W$$

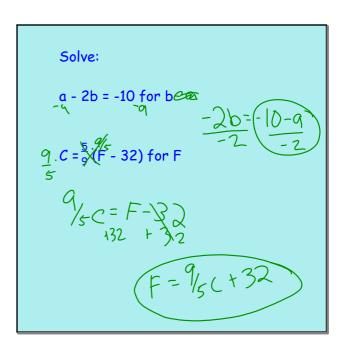
Circumference of a circle: $C=ndorGlar$
Area of a rectangle: $A=L.W$
Area of a triangle: $A=L.W$
Area of a circle: $A=nr^2$

Distance: d = r + tTemperature: $C = \frac{5}{9}(F - 32)$

Formula Sheet:

What is the height of a triangle that has an area of 24 in², and a base with a length of 8 in? $H = \frac{1}{2} \quad b \quad b$

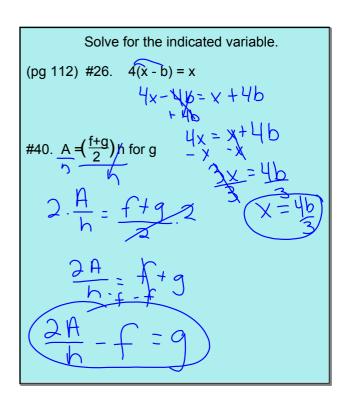
$$H = \frac{1}{2}bh$$
 $24 = \frac{1}{2}(8)h$
 $N = 6$



Solve for x:

$$ax - bx = c$$

 $(a - b) = C$
 $a - b$
 $X = C$
 $a - b$



Hwk: pg. 112 - 114 #16, 20 - 42 evens, 45, 48