

Review: Solving Equations

Solve & check.

$$\textcircled{1} \quad -x - 6 = 9$$

$$\textcircled{2} \quad -50 = -12x$$

$$\textcircled{3} \quad \frac{w}{9} = -\frac{5}{6}$$

$$\textcircled{4} \quad -\frac{3}{4}x = 6$$

$$\textcircled{5} \quad 1 = 5 - \frac{1}{3}x$$

$$\textcircled{6} \quad 2(3-x) = 6$$

$$\textcircled{7} \quad 7x - 9 = 3x - 3$$

$$\textcircled{8} \quad 6x - 3(2x-1) = 4$$

$$\textcircled{9} \quad 10 - 5(x-2) = 7 - 3(2x-1)$$

$$\textcircled{10} \quad 4 - 3(1-x) = 3(x+1) - 2$$

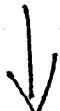
State each property.

$$\textcircled{11} \quad \text{if } a=b, \text{ then } a+b = c+b$$

$$\textcircled{12} \quad \text{if } a=b, \text{ then } a-c = b-c$$

$$\textcircled{13} \quad a \cdot (b \cdot c) = (a \cdot b) \cdot c$$

$$\textcircled{14} \quad a+b = b+a$$



Define a variable, write an equation, solve.

⑯ the sum of 3 consecutive odd integers is 105.
Find the integers.

⑰ you & 3 of your friends go out to eat. You each
pay $\frac{1}{4}$ of the bill. If your share of the bill
is \$8.50, what is the total cost of the meal?

Answers:

① $x = -15$

② $x = \frac{25}{6}$

③ $w = -\frac{15}{2}$

④ $x = -8$

⑤ $x = 12$

⑥ $x = 0$

⑦ $x = \frac{3}{2}$

⑧ \emptyset

⑨ $x = -10$

⑩ $\forall R$

⑪ NONE

⑫ subtraction prop of ∞ .

⑬ associative prop. of multiplication

⑭ commutative prop. of addition

⑮ Let $n = 1st \#$, $n+2 = 2nd \#$, $n+4 = 3rd \#$

$$n + n+2 + n+4 = 105 ; \text{ integers } \{33, 35, 37\}$$

⑯ let $x = \text{total cost of meal}$

$$\frac{1}{4}x = 8.50 ; \text{ solution } x = \$34.00$$