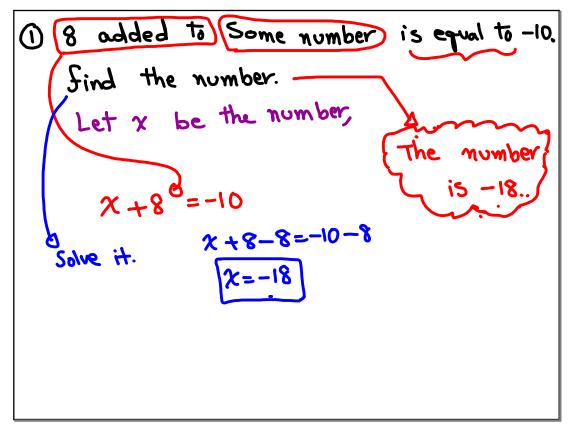
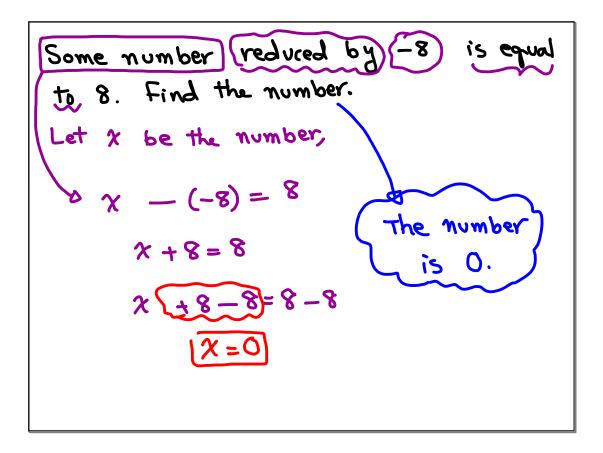


Feb 19-8:47 AM





4 times Some number is equal to -20. \bigcirc find Square of the number. Let x be the number $\chi^2 = (-5)^2 = 25$ $4\chi = -20$ $\frac{4}{4}\chi = \frac{-20}{4}$ Square of $\chi = -5$ the number is 25. 2 1 of Some number (is equal to 40. find Square root of the number. Let x be the number, $\sqrt{\chi} = \sqrt{400} = 20$ $\frac{1}{10} \cdot \chi = 40$ because 20²=400 Square root of the $10 \cdot \frac{1}{10} \chi = 10.40$ number is 20. $\chi = 400$

Solve (final Ans in Solution Set]
(1)
$$3x(\pm 10) = -8$$

 $3x = -8 - 10$
 $3x = -18$
 $x = -\frac{18}{3}$
 $x = -6$
 $\xi = -6$
 $\xi = -6$
 $\xi = -6$
 $\chi = -18$
 $\xi = -18$

February 7, 2019

7 less than twice some number is equal
to 29. find the number.
$$\chi$$

 $2\chi = 29$
 $2\chi = 29$ +7
 $2\chi = 36$
 $\chi = \frac{36}{2}$
 $\chi = 18$

5 more than -3 times Some number
is equal to 56. Find the number.
Let
$$\chi$$
 be the number,
 -3χ (+5) = 56
 $-3\chi = 56-5$ The number is
 $-3\chi = 51$
 $\chi = \frac{51}{-3}$
 $\chi = -17$

Solve

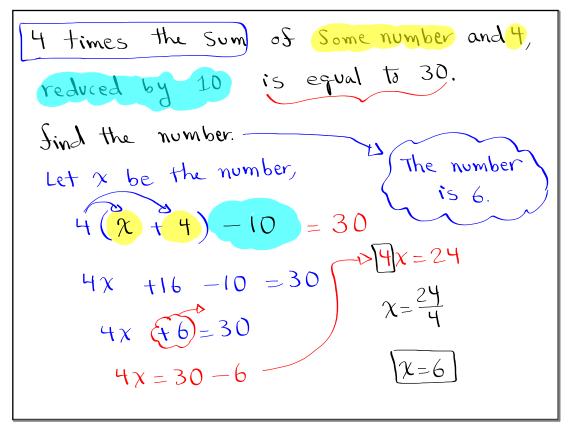
$$-2(3x + 7) + 14 = -30$$

 $-6x - 14 + 14 = -30$
 $-6x - 14 + 14 = -30$
 $-6x = -30$
 $x = \frac{-30}{-6}$
 $x = 5 - 7 55$

Solve

$$5(x+4) - 3(x-1) = 17$$

 $5x (+20) - 3x(+21) = 17$
 $2x (+41) = 17$
 $2x (+41) = 17$
 $2x = -17 - 41$
 $12x = -24$
 $x = \frac{-24}{2}$
 $x = \frac{-24}{2}$



-2 times the difference of Some number
and [5], increased by 4 times the number
is equal to 10.
Sind the number. Let x be the number,
$$-2(\chi - 5) + 4\chi = 10$$

 $-2\chi + 10 + 4\chi = 10$
 $\chi = 0$
 $\chi = 10 - 10$
 $\chi = 0$
 $\chi = 0$

Find
$$\chi$$
 if the perimeter of the shape
below is 28 St. Rectangular shape
 $P = 2L + 2W$
 $P = 28$
 $2L + 2W = 28$
 $2(\chi + 4) + 2(\chi) = 28$
Solve for χ .
 $2\chi + 8 + 2\chi = 28$
 $4\chi = 5$
 $4\chi = 8^{2} = 28$
 $4\chi = 28 - 8$

Quiz 1:
1) Simplify:
$$\frac{\sqrt{100} - \sqrt{36}}{(-2)^3} = \frac{10 - 6}{-8} = \frac{4}{-8} = \frac{-1}{2}$$

2) Evaluate: $(\chi - 5)^2 + \chi + 5$ or $\chi = 1$, and $y = -2$
 $= (1 - (-2)^2 + 1(-2)) = (1 + 2)^2 + (-2) = 3^2 - 2 = 9 - 2 = 1$
3) Solve: $3\chi + 12^9 = -12$
 $3\chi = -12 - 12$
 $3\chi = -12 - 12$
 $3\chi = -24$
 $\chi = -\frac{24}{3}$
 $\chi = -\frac{24}{3}$

More on linear equations:
when we have (), use distribution
to remove them.
when we have Stractions, use LCD to Clear
all Fractions
Solve
()
$$3(2x + 4) - (x - 10) = -28$$

 $5x + 23 = -28$
 $5x + 23 = -28$

Solve

$$3=3$$

$$\frac{2}{3}x - \frac{5}{6} = \frac{1}{2}$$

$$5 = 2$$

$$3=3$$

$$\frac{2}{3}x - \frac{5}{6} = \frac{1}{2}$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

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$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$1 = 2$$

$$2 = 2$$

Solve $\frac{3}{4}\chi + \frac{5}{6} = \frac{-3}{8}$ 4=2. 6 = 2LCD = 24Multiply everything by LCD=24 to clear 8 = 2LCD = 2= 24 all fractions $24 \cdot \frac{3}{4}\chi + 24 \cdot \frac{5}{6} = 24 \cdot \frac{-3}{8}$ $18\chi + 20 = -9$ $\chi = \frac{-29}{18}$ $\left| \begin{array}{c} \chi_{z} - 1 \frac{11}{18} \end{array} \right|$ $\left\{ \frac{-29}{18} \right\}$ or $\left\{ -1\frac{11}{18} \right\}$ 18x = -9 - 2018x = -29

When we have Variable on both Sides of
the equation, we should group all variables
on the left-hand side and everything
else on the right-hand side of
$$=$$
.
Solve
 $3x + 11 = x + 3$
 $3x - x = 3 - 11$
 $2x = -14$
 $x = -17 - 23$
 $4x + x = -17 - 23$
 $5x = -40$
 $x = -\frac{40}{5}$
 $x = -\frac{40}{5}$

Solve
$$4(x - 1) + 3(2x + 4) = 5(x + 3) - 4$$

Distribute ξ simplify each side
 $4x - 4 + 6x + 12 = 5x + 15 - 4$
 $10x + 8 = 5x + 17$
 $10x - 5x = 11 - 8$
 $5x = 3$
 $7x = 3$

Solve
$$\frac{2}{3}(x-4) + \frac{3}{4} = \frac{1}{2}(x+3)$$

1) Use LCD to clear Stractions $\frac{2-2}{2-2}$
 $\frac{4}{12} \cdot \frac{2}{3}(x-4) + \frac{3}{2} \cdot \frac{3}{4} = \frac{6}{12} \cdot \frac{1}{2}(x+3)$
 $2 \cdot \frac{2}{3}(x-4) + \frac{3}{2} \cdot \frac{3}{4} = \frac{6}{2} \cdot \frac{1}{2}(x+3)$
 $2 \cdot \frac{2}{3}(x-4) + 9 = 6(x+3)$
 $2 \cdot \frac{1}{2}(x+3)$
 $2 \cdot \frac{1}{2}(x+3)$

Solve

$$5(2x + 3) - 2(5x - 7) = -29$$

 $10x + 15 - 10x + 14 = -29$
 $29 = -29$
 $5alse = 0$ No Solution = 0
 $0 = -29 - 29$
 $0 = -58$
 $0 = -58$

Solve

$$7(3\chi + 4) - (\chi + 8) = 5(4\chi - 2) + 30$$

$$\underbrace{21\chi} (+28) - \chi - 8 = 20\chi (-10) (+30)$$

$$20\chi (+20) = (20\chi) + 20$$

$$20\chi - 20\chi = 20 - 20$$

$$0 = 0$$
True = insinite number of
Solutions
All Real numbers
R

Solve

$$1\chi + .05(\chi + 4) = .2$$
 decimal,
 $1\chi + .05(\chi + 4) = .2$ decimal,
Sirst convert
 $\frac{1}{10}\chi + \frac{5}{100}(\chi + 4) = \frac{2}{10}$
Use $L(D=100$ to clear Stractions.
 $10\chi + 100 + \frac{5}{100}(\chi + 4) = \frac{10}{100} \cdot \frac{2}{2}$
 $10\chi + 5(\chi + 4) = 20$ $\int_{15\chi = 0}^{15\chi = 20-20} \{0\}$
 $10\chi + 5(\chi + 4) = 20$ $\chi = \frac{0}{15}$ $\chi = 0$