May 22, 2018

Equations

Opposites:

- addition ↔ subtraction
- multiplication ↔ division
- cube root $\sqrt[3]{\ }$ ↔ cubed x^3
- square root $\sqrt{\ }$ ↔ squared x^2

Variables:

- a letter that represents a number

ex. $a^2 + b^2 = c^2$
(variables are a, b & c)

- the most common variable is "x"

① $2 + x = 10$
$-2 \quad -2$
$x = 8$

② $3 + x = (-4)$
$-3 \quad -3$
$x = -7$

③ $34 + x = 74$
$-34 \quad -34$
$x = 40$

Subtraction:

① $x - 4 = 8$
$+4 \quad +4$

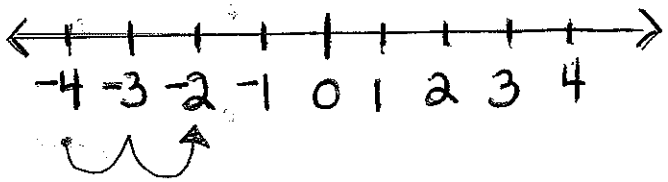
$x = 12$

② $x - 7 = 21$
$+7 \quad +7$

$x = 28$

③ $x - 2 = (-4)$
$+2 \quad +2$

$x = -2$



Prove it $x - 2 = (-4)$
$-2 - 2 = (-4)$
$-4 = -4$ ✓

EXERCISES

① $x + 7 = 22$

② $x + 57 = 73$

③ $x + 11 = 15$

④ $7 + x = 32$

⑤ $1 + x = -1$

⑥ $2 + x = -2$

⑦ $x + 3 = 4$

⑧ $x + 5895 = 5932$

⑨ $9 + x = 9$

⑩ $137389 + x = 138921$

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EXERCISES - continued

(11) $x - 4 = 5$

(12) $x - 2 = 5$

(13) $x - 37 = 37$

(14) $x - 12 = 2$

(15) $x - 7 = 7$

(16) $x - 3 = -4$

(17) $x - 37 = 100$

(18) $x - 12 = 48$

(19) $x - (-2) = -2$

(20) $x - (-10) = -8$