

Solving Linear equations

Ex: $7 = 2x + 4$

$$2x + 4 = 7$$

$$\frac{2x}{2} = \frac{3}{2}$$

$$x = \frac{3}{2}$$

Ex: $3(2x + 25) - 2(x - 1) = 78$

$$3(2x) + 3(25) - 2(x) - 2(-1) = 78$$

$$6x + (75) - 2x + 2 = 78$$

$$4x + 77 = 78$$

$$\frac{4x}{4} = \frac{1}{4}$$

$$x = \frac{1}{4}$$

Ex: $3(4 - 5x) = 2x - 4$

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

$$12 - 15x = 2x - 4$$

$$-15x = 2x - 16$$

$$\frac{-17x}{-17} = \frac{-16}{-17}$$

$$x = \frac{16}{17}$$

Ex: $x(y + 2) = z$ for y

$$x(y) + x(2) = z$$

$$xy + 2x = z$$

$$\frac{xy}{x} = \frac{z - 2x}{x}$$

$$y = \frac{z - 2x}{x}$$

hw pg 31, 32

Prob: 32-48 Evens

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