

$$270 - 4.50x = \$: n \text{ acct}$$

$$270 - 4.50(100)$$

$$270 = 4.5x$$

$$\text{if } x = 100$$

1.3 Solve Linear Equation

* In the form $ax + b = c$

* must have = sign (equation means =)

$$\frac{3x + 5 = 0}{-5 \quad \Delta \quad 5} \leftarrow \begin{array}{l} \text{undo } +5 \\ \text{undo } * 3 \end{array}$$

$$\frac{3 \cdot x}{3} = \frac{-5}{3}$$

$$x = \frac{-5}{3}, -\frac{5}{3}, -1.\bar{6}$$

Tools to Use

Addition property of = If $a=b$, then

$$a+c=b+c$$

Subtraction prop of = If $a=b$, then

$$a-c=b-c$$

Multiplication prop = If $a=b$, then

$$ac=bc$$

Division prop of = If $a=b$, then

$$\frac{a}{c}=\frac{b}{c}$$

Σ examples

$$\textcircled{a} \quad 4x + 9 = 21$$

$$\textcircled{b} \quad \frac{4}{5}x + 8 = 20$$

$$\cancel{\frac{5}{4}x} \quad \frac{4}{5}x = \frac{12}{1} \cdot \frac{5}{4}$$

$$\textcircled{c} \quad 7p + 13 = 9p - 5$$

$$\frac{60}{4} = 15$$