

$$(10) \quad 3x + 7 = 3(x + 1)$$

$$3x + 7 = 3x + 3$$

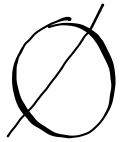
-7 -7

$$3x = 3x - 4$$

-3x -3x

$$0 = -4$$

No Solution



$$(11) \quad 7x + 9 = 9(x + 1) - 2x$$

$$7x + 9 = 9x + 9 - 2x$$

$$7x + 9 = 7x + 9$$

$$7x = 7x$$

$$x=1 \quad 7=7$$

$$x=2 \quad 14=14$$

$$x=-3 \quad -21=-21$$

$$\{x \mid x \text{ is a Real Number}\}$$

X = Some College make \$36,000

$A = X + 3$ Associate = \$39,000

$B = X + 23$ Bachelor \Rightarrow \$59,000

$$X + A + B = 134$$

$$X + (X + 3) + (X + 23) = 134$$

$$X + X + 3 + X + 23 = 134$$

$$3X + 26 = 134$$

$$3X = 108$$

$$X = \frac{108}{3} = 36$$

$X =$ years ^{after 1969} when phil. of life drops 33% for women

$$33 = 88 - 1.1x$$

$$\begin{array}{r} -88 \\ -88 \end{array}$$

$$-55 = -1.1x$$

$$-1.1x = -55$$

$$1.1x = 55$$

$$\frac{11}{10}x = 55$$

$$x = \frac{55 \cdot 10}{11} = \frac{550}{11} = 50$$

$$\begin{array}{r} 1969 \\ 50 \\ \hline \end{array}$$

In 2019

$$\text{Plan A: } A = \$15 + \$0.08m$$

$$\text{Plan B: } B = \$3 + \$0.12m$$

$$A = B$$

$$\begin{array}{r} 15 + 0.08m = 3 + 0.12m \\ -3 \quad -0.08m \quad -3 \quad -0.08m \\ \hline 12 = 0.04m \end{array}$$

$$\frac{4}{100}m = 12$$

$$m = \frac{12 \cdot 100}{4} = 300$$

$$\textcircled{4} \quad P = \text{Price before sale}$$

$$P - 0.3P = \$840$$

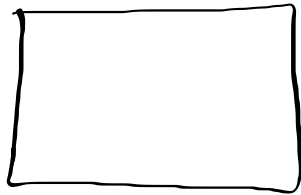
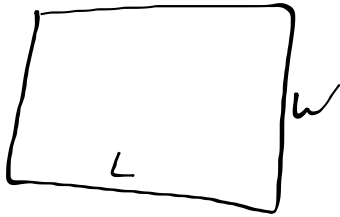
$$P(1 - 0.3) = 840$$

$$P 0.7 = 840$$

$$P \frac{7}{10} = 840$$

$$P = 840 \cdot \frac{10}{7} = \$1200$$

$$P = 2L + 2W$$



$$P = 200 \text{ ft}$$

$$L = 40 \text{ ft}$$

$$P = 2L + 2w$$

$$P - 2L = 2w$$

$$\frac{P - 2L}{2} = w$$

$$w = \frac{P - 2L}{2}$$

$$w = \frac{200 - 2(40)}{2} = \frac{200 - 80}{2} = \frac{120}{2} = 60$$

60 ft

$$T = D + pm \Rightarrow T - D = pm$$

$$m = ?$$

$$\frac{T - D}{p} = m$$

$$m = \frac{T - D}{p}$$

