

1.4

$$27. -14x + 28 + 6x = -44$$

$$\begin{array}{r} -8x + 28 = -44 \\ -28 \quad -28 \end{array}$$

$$\begin{array}{r} -8x = -72 \\ -8 \quad -8 \end{array}$$

$$x = 9$$

$$29) P = 2.5m + 35$$

$$P = \$115$$

$$115 = 2.5m + 35$$

$$\begin{array}{r} -35 \quad -35 \\ \hline \end{array}$$

$$\begin{array}{r} 80 = 2.5m \\ \hline \end{array}$$

$$\begin{array}{r} 2.5 \quad 2.5 \end{array}$$

$$\$32.50 m$$

40) $F = \frac{9}{5}(K - 273.15) + 32$

41 a) Solve for k

42 $F = \frac{9}{5}K - 491.67 + 32$

43 $F = \frac{9}{5}K - 459.67$

$+ 459.67$ $+ 459.67$

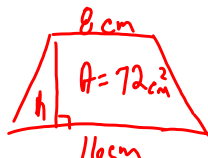
$\frac{F + 459.67}{\frac{9}{5}} = \frac{\frac{9}{5}K}{\frac{9}{5}}$

$\frac{208}{\frac{9}{5}} = \frac{\frac{9}{5}(K - 273.15)}{\frac{9}{5}}$

$\frac{5}{9}F + 255.37\bar{2} = K$ $\frac{1040}{9} = K - 273.15$

$\frac{5}{9}F + \frac{459.67}{180} = K + 273.15$ $+ 273.15$

$388.71 = K$

41)  a) $A = \frac{1}{2}h(b_1 + b_2)$

$\frac{1}{2}(b_1 + b_2) \cdot \frac{1}{2}(b_1 + b_2)$

c) $72 = \frac{1}{2}h(8 + 16)$ b) $\frac{A}{\frac{1}{2}(b_1 + b_2)} = h$

$72 = \frac{1}{2}h(24)$

$\frac{72}{12} = \frac{12h}{12}$

$6 = h$

42) $V = \pi r^2 h$ b) $6\pi = \pi(1.25)^2 h$

a) $\frac{V}{\pi r^2} = h$ $\frac{6\pi}{\pi(1.25)^2} = h$

$3.84 = h$