

SECTION 1.4
14, 16, 21, 23, 26, 28, 30

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PER 1
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$$14) \quad 3x + \frac{1}{5}y = 7$$

DO	UNDO
$\times \frac{1}{5}$	$-3x \checkmark$
$+3x$	$\times \frac{5}{1} \checkmark$

$$\frac{-3x}{5} + \frac{-3x}{5} = (7 - 3x) \cdot 5$$

$$\frac{5}{x} \left(\frac{1}{5}y \right) = (7 - 3x) \cdot 5$$

$$y = 5(7 - 3x)$$

$$16) \quad x = 7x - 2y$$

DO	UNDO
$\times (-2)$	$-7x \checkmark$
$+7x$	$\div (-2) \checkmark$

$$\frac{x - 7x}{-2} = \frac{-2y}{-2}$$

$$-\frac{6x}{2} + \frac{7x}{2} = y$$

$$y = -\frac{6x}{2} + \frac{7x}{2}$$

$$21) \quad \frac{e}{c^2} = \frac{mc^2}{c^2}$$

DO	UNDO
$\times c^2$	$\div c^2 \checkmark$

$$\frac{e}{c^2} = m$$

$$m = \frac{e}{c^2}$$

$$23) \quad P = a + b + c$$

DO	UNDO
$+b$	$-c \checkmark$
$+c$	$-b \checkmark$

$$P - c = a + b$$

$$P - c - b = a$$

$$a = P - c - b$$

or

$$a = P - b - c$$

$$26) \quad K = C + 273.15$$

$$a) \quad K = (200) + 273.15$$

$$K = 473.15^\circ K$$

$$b) \quad K = C + 273.15$$

$$-273.15 \quad -273.15$$

$$K - 273.15 = C$$

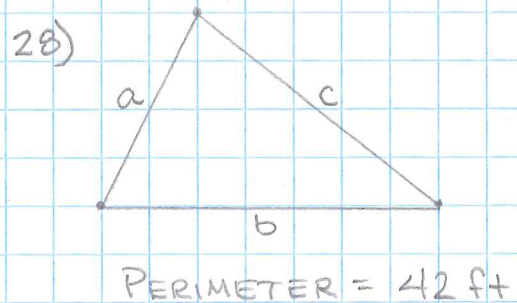
$$C = K - 273.15$$

$$c) \quad C = K - 273.15$$

$$C = (300) - 273.15$$

$$C = 26.85^\circ C$$

$$\begin{array}{r} 2999 \\ 300.00 \\ -273.15 \\ \hline 26.85 \end{array}$$



$$a) \quad P = a + b + c$$

$$b) \quad P = a + b + c$$

$$-a \quad -a$$

$$P - a = b + c$$

$$-c \quad -c$$

$$P - a - c = b$$

$$b = P - a - c$$

$$c) \quad b = P - a - c$$

$$b = (42) - (10) - (17)$$

$$b = 32 - 17$$

$$b = 15 \text{ FEET}$$

30

30) PORTLAND = 38°F
BOSTON = 2°C

$$C = \frac{5}{9}(F - 32)$$

$$C = \frac{5}{9}((38) - 32)$$

$$C = \frac{5}{9}(6)$$

$$C = \frac{30}{9}$$

$$C = \frac{10}{3}$$

$$C = 3\frac{1}{3}^{\circ}C$$

PORTLAND BOSTON
38°F ? 2°C

PORTLAND BOSTON
3 $\frac{1}{3}$ °C > 2°C

THE WATER TEMPERATURE
IS HIGHER IN PORTLAND.