

Page renumbering for Assignment 3 and Assignment 4 (which was incorrectly numbered #5): Assignment 3A, p. 205; Assignment 3B, p. 237; Assignment 4A, p. 210; Assignment 4B, p. 215.

Answers to Assignment 1:

- A1. $x = 10$
- A2. $x = 4$
- A3. $x \approx -4.57$
- A4. $x = 14/5 = 2.8$
- A5. $x = 2$
- A6. 95°F

B1.
$$h = \frac{A}{Lw}$$

B2.
$$t = T - \frac{I}{kL} = \frac{kLT - I}{kL}$$

B3.
$$b = \frac{2A}{h}$$

B4.
$$L = \frac{RD^2}{r}$$

B5.
$$C = \frac{5}{9}(F - 32)$$

B6.
$$B = \frac{2A}{h} - b = \frac{2A - bh}{h}$$

B7.
$$v_1 = \frac{mv_2 - Ft}{m} = v_2 - \frac{Ft}{m}$$

B8.
$$m = \frac{Ft}{v_2 - v_1}$$

B9.
$$V = \frac{nRT}{P}$$

Assignment 4

p. 237

#8 Each violates the rule that in (formal) scientific notation the number is written as $B \cdot 10^n$, where $1 \leq |B| < 10$. Rewriting each in scientific notation, we have:

- a.** $2.5 \cdot 10^5$ **b.** $5.6 \cdot 10^{-4}$ **c.** $1.2 \cdot 10^{-4}$ **d.** $-4.2503 \cdot 10^4$