

NAME \_\_\_\_\_ HW # \_\_\_\_\_

Solve each equation below and show a check.

1. $8x + 2 = 2x - 22$	Check
2. $2(x - 10) = 3x + 8 + 3x$	Check
3. $7(2x - 3) = 13x - 21$	Check

4. The charges for an international call made using a calling card for two companies are shown in the table below.

Phone Company	Charges
Company A	\$0.35 plus \$0.35 per minute
Company B	\$0.45 plus \$0.02 per minute

$m = \#$  of minutes

- Write an expression to represent Company A's charges.
- Write an expression to represent Company B's charges.
- What is the length of a phone call that would make both company's charge the same amount? Write an equation to solve.