Name_____

Directions: Solve for x in each equation below. Your first step should be to combine any like terms. Then use inverse operations to get the variable all by itself on one side of the equation. Make sure to show your work.

Examples: $3x - 12 + x = 48$ (*add 3x + x)*
$4x - 12 = 48$ (*add 12 to both sides)*
$4x = 60$ (*divide both sides by 4)*
x = 15

$3x - 12 + 2x = 28$ (*add 3x+2x)*
$5x - 12 = 28$ (*add 12 to both sides)*
$5x = 40$ (*divide both sides by 5)*
x = 8

1) $6x - 10 + 3x = 35$

2) $x - 20 + 2x = 35$

3) $2x - 16 + 2x = 28$

4) $3x - 12 + 9x = 72$

x = _____

x = _____

x = _____

x = _____

5) $9x - 10 + x = 30$

6) $3x - 20 + 2x = 15$

7) $5x - 52 + 6x = 25$

8) $5x - 43 + 4x = 39$

x = _____

x = _____

x = _____

x = _____

9) $6x - 25 + 6x = 35$

10) $2x - 8 + 3x = 12$

11) $4x - 30 + 2x = 18$

12) $x - 100 + x = 12$

x = _____

x = _____

x = _____

x = _____