

Practice Quiz C: Solving equations

Name_____

Solve the following equations for x.

1. $\frac{x}{5} + 2 = -4$

2. $\frac{2}{3}x - 5 = 3$

3. $-2 + 5x = 13$

4. $2x + 8 = -10$

5. $-3(x - 2) = 3$

6. $\frac{2}{5}(2x - 3) = 2$

7. $7x - 2x - 7 = -17$

8. $-15 = -3x + 8x + 10$

9. $-2x + 6(3x + 1) = -26$

10. Find x if $f(x) = 3$ and $f(x) = -5x - 7$

11. $10 + 3x = 6x - 5$

12. $3(5x - 9) = 5x - 12$

13. $-10 + 6x + 3x = 5 - 4x - 2x$

Movie Tickets: A movie theater has a total of 351 seats. For a special Saturday night preview, they reserve 39 seats to give away to their VIP guests at no charge.

If x represents the number of tickets they can sell for the preview, then x can be found by solving the equation $x + 39 = 351$

A.) Solve the equation for x .

B.) If tickets for the preview are \$11.50 each, what is the maximum amount of money they can make from ticket sales?