

Unit 6: Expressions, Equations, and Inequalities

ADVANCED

Name: _____ Date: _____

Solve each equation or inequality. Show your work and give the exact value of x .

1. Solve for x : $-8x + 15 = 63$

Answer: _____

2. Solve for x : $(\frac{2}{3})x - 7 = 11$

Answer: _____

3. Solve the inequality for x : $-5x + 24 > 79$

Answer: _____

4. Solve for x : $2.4x + 5.6 = 20$

Answer: _____

5. Solve for x : $-x/4 + 9 = 15$

Answer: _____

6. Solve for x : $7x - 12 = -54$

Answer: _____

7. Solve the inequality for x : $6x + 19 \leq 4$

Answer: _____

8. Solve for x : $-3(x + 4) = 27$

Answer: _____

9. Solve for x : $(x - 5)/2 = -8$

Answer: _____

10. Solve the inequality for x : $9 - 2x > 23$

Answer: _____

11. Solve for x : $(\frac{5}{6})x + 3 = -12$

Answer: _____

12. Solve for x : $-0.75x - 2 = 4$

Answer: _____