

Unit 4: Expressions and More Equations

ADVANCED • SET 2

Name: _____ Date: _____

Show all work. Give each answer as an exact number or fraction in simplest form; if an equation has no solution write "no solution" and if it has infinitely many write "infinite".

1. Solve for x: $5(3x - 4) + 8 = 3(5x - 4)$

Answer: _____

3. Solve for x: $0.25(x + 8) = 0.4x - 1.3$

Answer: _____

5. Solve for x: $12 - 5(2x - 3) = 3(4 - x) + 8x$

Answer: _____

7. Solve for x: $\frac{2}{5}(10x - 15) = 3(x + 2) + x - 6$

Answer: _____

2. Solve for x: $\frac{2}{3}x - 5 = \frac{1}{4}x + 3$

Answer: _____

4. Write $4(3x - 5) - 2(x - 7) + 9$ in the form $ax + b$, then give the value of $a + b$.

Answer: _____

6. Solve for x: $6(x - \frac{2}{3}) + 15 = -2(3 - 4x) - 5x$

Answer: _____

8. Simplify $-2(3x^2 - 4x + 1) + 3(2x^2 - x - 5)$, then give the coefficient of x in the result.

Answer: _____