

Math 171
Fundamental Concepts of Algebra Worksheet

Solve:

1. $2(x - 1) + 3(2x + 3) = 5$

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

3. $\frac{2}{x+1} + \frac{4}{x-1} = \frac{7x}{x^2-1}$

4. $\frac{3}{x} - \frac{1}{6} = \frac{1}{3}$

5. $S = P + Prt$ for r

6. $6x^2 + 11x = 10$

7. $(4x + 2)^2 = 4$

8. $x^2 - 2x + 5 = 0$

9. $3x^2 - 7x + 2 = 0$

Solve write answer in interval notation:

10. $8x - 2 > 7$

11. $4 < 3x - 4 < 9$

12. $|3x + 4| = -3$

13. $x^2 + 4x - 8 \geq 3$

14. $\frac{4}{x+3} - \frac{6x}{x-1} < 2$