

Questions

1. Solve for x when $9(x + 3) - 6 = 24 - 2x - 3 + 11x$.
2. Solve $\frac{6}{x - 5} + \frac{3x + 1}{x^2 - 2x - 15} = \frac{5}{x + 3}$.
3. Reduce $|\frac{2}{5}x + 1| = |1 - x|$.
4. Solve $\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$ for R_1 (resistance).
5. In her statistics course, Jill earned 80/100 and 75/100 on her two chapter tests. The chapter tests count 30% each towards her course grade, and the final exam is worth 40% of her course grade. What must Jill score on the final (out of 100) if she wishes to earn a final grade of at least 83/100?