Simplify all answers and show your work!

1. Solve for x: \(4x^2 - 5x - 6 = 0\) 
2. Solve for x: \(3x^2 - 5x + 1 = 0\)

3. Solve for x: \(\frac{7}{x - 4} = \frac{1}{x^2 - 4x} - \frac{5}{x}\) 
4. Solve for x: \(\frac{3}{x} + \frac{7}{3x} = 1\)

5. Simplify: \((27)^{\frac{2}{3}}\) 
6. Simplify: \(\sqrt[4]{81}p^{16}\) 
7. Simplify: \(\frac{x^3 y^5}{x^{\frac{1}{2}} y^{\frac{1}{2}} y^{\frac{6}{5}}}\)

8. Simplify: \((3 + 4i)(2 - 5i)\) 
9. Simplify: \((3 + 5i) - (4 + 2i) - (8 - 3i)\)

10. Solve for x: \(x^2 - 10x + 25 = 0\)