Must show all steps and all work to earn full credit.

Multiply or divide as indicated. Write the answer in lowest terms.

1) $\dfrac{2t^2 - 13t - 24}{3t^2 - 2t - 5} \cdot \dfrac{3t^2 + 13t - 30}{t^2 - 2t - 48}$

Add or subtract. Write the answer in lowest terms.

2) $\dfrac{x}{x - 7} + \dfrac{14}{x + 7} - \dfrac{98}{x^2 - 49}$

Simplify the complex fraction.

3) $\dfrac{\dfrac{64x^2 - 16y^2}{xy}}{\dfrac{8}{y} - \dfrac{4}{x}}$

Solve the equation.

4) $\dfrac{x}{2x + 2} = \dfrac{-2x}{4x + 4} + \dfrac{2x - 3}{x + 1}$

Solve the formula for the specified variable.

5) $I = \dfrac{E}{R + r}$ for r