

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

State the restrictions on "x" for the following rational expression.

$$1) \frac{x^2 - 81}{x^2 - 12x + 35}$$

Express the rational expression in lowest terms.

$$2) \frac{y^2 + 4y - 45}{y^2 + 15y + 54}$$

Write the rational expression in lowest terms.

$$3) \frac{6k - 48}{72 - 9k}$$

$$4) \frac{x^3 - 8}{x^2 + 2x + 4}$$

$$5) \frac{6 + t}{t - 6}$$