

#11-5 Simplify

$$a) \frac{x^2 + 6x + 9}{x^2 - 9} = \frac{(x+3)(x+3)}{(x+3)(x-3)} = \boxed{\frac{x+3}{x-3}}$$

$$b) \frac{2x^2 - x - 10}{3x + 7x + 2} = \frac{(2x+5)(x+2)}{(3x+1)(x+2)} = \boxed{\frac{2x+5}{3x+1}}$$

$$c) \frac{28x^2 - x - 15}{28x^2 - x - 15} = \boxed{1}$$

$$d) \frac{x^2 + 4x}{2x + 8} = \frac{x(x+4)}{2(x+4)} = \boxed{\frac{x}{2}}$$