

## Quiz Review

$$1. \frac{3x^2-27}{6x+18} = \frac{3(x^2-9)}{6(x+3)}$$

$$= \frac{3(\cancel{x-3})(x+3)}{6(\cancel{x+3})} = \frac{x-3}{2}, x \neq -3$$

$$2.a) \frac{x-5}{x+2} \cdot \frac{x^2-4}{x-2}$$

$$\frac{\cancel{x-5}}{\cancel{x+2}} \cdot \frac{(x-2)\cancel{(x+2)}}{(\cancel{x-2})}$$

$$= x-5, x \neq 2, -2$$

$$b) \frac{4x+16}{14x-7} \cdot \frac{2x-1}{(x+4)^2}$$

$$\frac{4(\cancel{x+4})}{7(\cancel{2x-1})} \cdot \frac{\cancel{2x-1}}{(\cancel{x+4})(x+4)}$$

$$= \frac{4}{7(x+4)}, x \neq \frac{1}{2}, -4$$