

- Cancel out like factors
- Know how to factor

$$\frac{10x^2y}{15x^5y^2} = \frac{2 \cdot \cancel{5} \cdot \cancel{x} \cdot \cancel{x} \cdot \cancel{y}}{3 \cdot \cancel{5} \cdot \cancel{x} \cdot \cancel{x} \cdot \cancel{x} \cdot \cancel{x} \cdot \cancel{y} \cdot \cancel{y}} = \frac{2}{3x^3y}$$

like factors

$$\text{Factor } \left(\frac{2x+8}{(x-4)(x+4)} \right)$$

$$= \frac{2 \cdot \cancel{(x+4)}}{(x-4) \cdot \cancel{(x+4)}} \xrightarrow{\text{like factors}} = \frac{2}{x-4}$$