

\* Simplify

$$\frac{16x^3y^3}{2xy^2} = \boxed{8xy^3}$$

\*  $\frac{x+3}{x^2-9}$

what are the factors of  $x^2-9$

$$\text{factor } x^2-9 = (x+3)(x-3)$$

$$\frac{x+3}{x^2-9} = \frac{\cancel{(x+3)}}{\cancel{(x+3)}(x-3)} = \boxed{\frac{1}{x-3}}$$