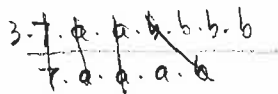


11-1 Simplifying Rational Expressions

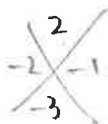
Simplify:

$$1. \frac{21a^2b^4}{7a^3b} = \boxed{\frac{3b^3}{a}}$$



$$2. \frac{2n-3}{6n-9} = \frac{(2n-3)}{3(2n-3)} = \boxed{\frac{1}{3}}$$

$$3. \frac{y^2-3y+2}{3y-3} = \frac{(y-1)(y-2)}{3(y-1)}$$



$$= \boxed{\frac{y-2}{3}}$$

$$4. \frac{2d^2-2d-12}{d^2+5d+6} = \frac{2(d^2-d-6)}{d^2+5d+6}$$



$$= \frac{2(d-3)(d+2)}{(d+3)(d+2)}$$



$$= \boxed{\frac{2(d-3)}{d+3}} \quad \text{or} \quad \frac{2d-6}{d+3}$$

$$5. \frac{e^2-2e-15}{25-e^2} = \frac{e^2-2e-15}{-1(e^2-25)} = \frac{(e-5)(e+3)}{-1(e+5)(e-5)} = \frac{e+3}{-(e+5)} = \boxed{\frac{-e+3}{e+5}}$$

