

Simplifying Rational Expressions

Simplify each expression.

$$1) \frac{35n}{35n^2}$$

$$2) \frac{45x^2}{25x}$$

$$3) \frac{x-8}{x^2+x-72}$$

$$4) \frac{p^2-3p-54}{p-9}$$

$$5) \frac{56v-72}{32v}$$

$$6) \frac{a+7}{a^2+6a-7}$$

$$7) \frac{5v^2-5v}{1-v}$$

$$8) \frac{2-x}{x^2+4x-12}$$

$$9) \frac{v^2+7v-30}{9v^2+90v}$$

$$10) \frac{b^2+b-30}{3b^2+18b}$$

$$11) \frac{3x^2+5x-2}{7x^2+12x-4}$$

$$12) \frac{3b^2+26b-9}{5b^2+40b-45}$$