

## Simplify Rational Expressions

Simplify the rational expressions.

$$\frac{q - 4}{3q - 12}$$

$$\frac{20}{5d + 20}$$

$$\frac{7h + 21}{49}$$

$$\frac{9c + 36}{36}$$

$$\frac{y + 2}{2y + 4}$$

$$\frac{z + 1}{8z + 8}$$

$$\frac{8b - 64}{b - 8}$$

$$\frac{7q - 14}{q - 2}$$

## Simplify Rational Expressions

Simplify the rational expressions.

$$\frac{q - 4}{3q - 12}$$
$$= \frac{1}{3}$$

$$\frac{7h + 21}{49}$$
$$= \frac{h + 3}{7}$$

$$\frac{y + 2}{2y + 4}$$
$$= \frac{1}{2}$$

$$\frac{8b - 64}{b - 8}$$
$$= 8$$

$$\frac{20}{5d + 20}$$
$$= \frac{4}{d + 4}$$

$$\frac{9c + 36}{36}$$
$$= \frac{c + 4}{4}$$

$$\frac{z + 1}{8z + 8}$$
$$= \frac{1}{8}$$

$$\frac{7q - 14}{q - 2}$$
$$= 7$$