

Name : _____ Score : _____

Teacher : _____ Date : _____

Simplifying Rational Expressions

Simplify each expression.

1) $\frac{36z^4}{42z^2}$

6) $\frac{63}{9n - 54}$

2) $\frac{5g + 25}{25}$

7) $\frac{k^2 - 3k - 40}{k + 5}$

3) $\frac{y^2 - 2y - 15}{y^2 + 2y - 35}$

8) $\frac{8c^3}{24c^4}$

4) $\frac{q - 4}{6q - 24}$

9) $\frac{40r^3}{20r^4}$

5) $\frac{h + 5}{h^2 + 4h - 5}$

10) $\frac{18b^2 + 48b + 32}{12b^2 + 7b - 12}$

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Simplifying Rational Expressions

Simplify each expression.

$$1) \frac{36z^4}{42z^2}$$

$$\frac{6z^2}{7}$$

$$6) \frac{63}{9n - 54}$$

$$\frac{7}{n - 6}$$

$$2) \frac{5g + 25}{25}$$

$$\frac{g + 5}{5}$$

$$7) \frac{k^2 - 3k - 40}{k + 5}$$

$$k - 8$$

$$3) \frac{y^2 - 2y - 15}{y^2 + 2y - 35}$$

$$\frac{y + 3}{y + 7}$$

$$8) \frac{8c^3}{24c^4}$$

$$\frac{1}{3c}$$

$$4) \frac{q - 4}{6q - 24}$$

$$\frac{1}{6}$$

$$9) \frac{40r^3}{20r^4}$$

$$\frac{2}{r}$$

$$5) \frac{h + 5}{h^2 + 4h - 5}$$

$$\frac{1}{h - 1}$$

$$10) \frac{18b^2 + 48b + 32}{12b^2 + 7b - 12}$$

$$\frac{2(3b + 4)}{4b - 3}$$