

Name : _____ Score : _____

Teacher : _____ Date : _____

Simplifying Rational Expressions

Simplify each expression.

1) $\frac{g - 6}{g^2 - 15g + 54}$

6) $\frac{n - 3}{3n - 9}$

2) $\frac{54}{9q - 27}$

7) $\frac{z - 8}{z^2 - 12z + 32}$

3) $\frac{3y + 15}{15}$

8) $\frac{32p^4}{8p}$

4) $\frac{21c^2 - 39c + 18}{24c^2 - 30c + 6}$

9) $\frac{h^2 + 3h - 54}{h^2 + 10h + 9}$

5) $\frac{10k^4}{4k^4}$

10) $\frac{15b}{21b^2}$



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Simplify each expression.

1)
$$\frac{g - 6}{g^2 - 15g + 54}$$

$$\frac{1}{g - 9}$$

2)
$$\frac{54}{9q - 27}$$

$$\frac{6}{q - 3}$$

3)
$$\frac{3y + 15}{15}$$

$$\frac{y + 5}{5}$$

4)
$$\frac{21c^2 - 39c + 18}{24c^2 - 30c + 6}$$

$$\frac{7c - 6}{2(4c - 1)}$$

5)
$$\frac{10k^4}{4k^4}$$

$$\frac{5}{2}$$

6)
$$\frac{n - 3}{3n - 9}$$

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

7)
$$\frac{z - 8}{z^2 - 12z + 32}$$

$$\frac{1}{z - 4}$$

8)
$$\frac{32p^4}{8p}$$

$$4p^3$$

9)
$$\frac{h^2 + 3h - 54}{h^2 + 10h + 9}$$

$$\frac{h - 6}{h + 1}$$

10)
$$\frac{15b}{21b^2}$$

$$\frac{5}{7b}$$

