

Simplifying Rational Expressions Practice

Date _____ Period _____

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Simplify each expression.

1) $\frac{81x^5}{27x^3}$

2) $-\frac{60n^5}{100n}$

3) $\frac{21b + 42}{21}$

4) $\frac{v^2 + 3v - 70}{v - 7}$

5) $\frac{7x + 49}{x^2 + 14x + 49}$

6) $\frac{6n - 3}{15n + 30}$

7) $\frac{k^2 - 12k + 32}{k^2 - 64}$

8) $\frac{a^3 + a^2 - 42a}{7a^2 + 63a + 98}$

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Simplify each expression.

$$1) \frac{81x^5}{27x^3}$$
$$3x^2$$

$$2) -\frac{60n^5}{100n}$$
$$-\frac{3n^4}{5}$$

$$3) \frac{21b + 42}{21}$$
$$b + 2$$

$$4) \frac{v^2 + 3v - 70}{v - 7}$$
$$v + 10$$

$$5) \frac{7x + 49}{x^2 + 14x + 49}$$
$$\frac{7}{x + 7}$$

$$6) \frac{6n - 3}{15n + 30}$$
$$\frac{2n - 1}{5(n + 2)}$$

$$7) \frac{k^2 - 12k + 32}{k^2 - 64}$$
$$\frac{k - 4}{k + 8}$$

$$8) \frac{a^3 + a^2 - 42a}{7a^2 + 63a + 98}$$
$$\frac{a(a - 6)}{7(a + 2)}$$