

Rational Expression Review

Date _____

Simplify each expression.

1)
$$\frac{a^2 + 9a + 8}{a^2 - 5a - 6}$$

2)
$$\frac{n^2 - 6n - 27}{n^2 + 8n + 15}$$

3)
$$\frac{x^2 + 11x + 10}{3x^2 + 30x}$$

$$4) \frac{x^2 - 7x - 30}{x^2 - x - 12}$$

$$5) \frac{6p + 20}{10p - 14}$$

$$6) \frac{n^2 - 3n - 70}{n^2 - n - 90}$$

$$7) \frac{2r - 12}{7r^2 - 40r - 12}$$

$$8) \frac{3a^2 + 7a + 2}{5a^2 + 13a + 6}$$

$$9) \frac{3n^2 - 7n + 4}{2n^2 - 4n + 2}$$

$$10) \frac{7k^2 - 13k - 2}{5k^2 - 18k + 16}$$

Answers to Rational Expression Review

$$1) \frac{a+8}{a-6}$$

$$5) \frac{3p+10}{5p-7}$$

$$9) \frac{3n-4}{2(n-1)}$$

$$2) \frac{n-9}{n+5}$$

$$6) \frac{n+7}{n+9}$$

$$10) \frac{7k+1}{5k-8}$$

$$3) \frac{x+1}{3x}$$

$$7) \frac{2}{7r+2}$$

$$4) \frac{x-10}{x-4}$$

$$8) \frac{3a+1}{5a+3}$$