

NAME: _____

SIMPLIFYING QUADRATIC FRACTIONS WORKSHEET

Simplify the given fractions.

$$\frac{x^2 + 7x + 12}{2x + 8}$$

=

$$\frac{x + 2}{x^2 + 3x + 2}$$

=

$$\frac{x^2 + 7x + 12}{x^2 + 5x + 36}$$

=

$$\frac{3y - 3}{y^2 - 2y + 1}$$

=

$$\frac{2x^2 + 14x + 24}{3x^2 + 39x + 108}$$

=

$$\frac{(x + 4)(x + 3)}{2x + 8}$$

=

$$\frac{x^2 + 7x + 12}{(x + 4)(x - 9)}$$

=

$$\frac{4a + b}{24a^2 + 6ab}$$

=

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Answers

$$\frac{x^2 + 7x + 12}{2x + 8}$$
$$= \frac{x + 3}{2}$$

$$\frac{x + 2}{x^2 + 3x + 2}$$
$$= \frac{1}{x + 1}$$

$$\frac{x^2 + 7x + 12}{x^2 + 5x + 36}$$
$$= \frac{x - 3}{x + 9}$$

$$\frac{3y - 3}{y^2 - 2y + 1}$$
$$= \frac{3}{y - 1}$$

$$\frac{2x^2 + 14x + 24}{3x^2 + 39x + 108}$$
$$= \frac{2x + 6}{3x + 27}$$

$$\frac{(x + 4)(x + 3)}{2x + 8}$$
$$= \frac{x + 3}{2}$$

$$\frac{x^2 + 7x + 12}{(x + 4)(x - 9)}$$
$$= \frac{x + 3}{x - 9}$$

$$\frac{4a + b}{24a^2 + 6ab}$$
$$= \frac{1}{6a}$$