

Name : _____

Simplifying Expressions

Add/Sub: MS1

Simplify each expression.

1) $\frac{2a}{a+5} + \frac{6a}{a^2+7a+10}$

2) $\frac{1}{x+4} - \frac{3}{x-2}$

3) $\frac{25}{7m^2} - 2m$

$\frac{2}{y-4}$

5) $\frac{2}{k^2+5k+6} -$

$\frac{y^2+6y+8}{y+2}$

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7) $\frac{n+1}{3n} + \frac{3n-1}{2n}$

8) $2 - \frac{5q}{q+5}$

Name : _____

Answer key

Add/Sub: MS1

Simplifying Expressions

Simplify each expression.

1) $\frac{2a}{a+5} + \frac{6a}{a^2+7a+10}$

$$\frac{2a}{a+2}$$

2) $\frac{1}{x+4} - \frac{3}{x-2}$

$$\frac{-2x-14}{(x-2)(x+4)}$$

3) $\frac{25}{7m^2} - 2m$

$$\frac{25-14m^3}{7m^2}$$

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5) $\frac{2}{k^2+5k+6} -$

$$\frac{k+1}{(k+2)^2(k+3)}$$

$$\frac{2}{y-4}$$

$$\frac{y^2+6y+8}{y+2}$$

7) $\frac{n+1}{3n} + \frac{3n-1}{2n}$

$$\frac{11n-1}{6n}$$

8) $2 - \frac{5q}{q+5}$

$$\frac{-3q+10}{q+5}$$