

Name : _____

Simplifying Expressions

Add/Sub: MS4

Simplify each expression.

1) $\frac{y^2 + 4y - 21}{y - 3} - \frac{y^2 - y - 20}{y + 4}$

2) $\frac{q - 4}{2q} + \frac{5q - 2}{5q}$

3) $\frac{3k}{5 - k} - \frac{9}{k - 7}$

$$\frac{4}{z^2 + 6z + 9}$$

5) $\frac{2}{a + 6} - \frac{3}{a - 1}$

$$\frac{1}{25}$$

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7) $\frac{p}{p^2 + p - 6} + \frac{3}{p - 2}$

8) $\frac{m - 3}{m + 3} - \frac{m + 3}{m - 3}$

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Answer key

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Simplifying Expressions

Simplify each expression.

1) $\frac{y^2 + 4y - 21}{y - 3} - \frac{y^2 - y - 20}{y + 4}$

2) $\frac{q - 4}{2q} + \frac{5q - 2}{5q}$

12

$\frac{15q - 24}{10q}$

3) $\frac{3k}{5 - k} - \frac{9}{k - 7}$

$\frac{4}{z^2 + 6z + 9}$

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$\frac{3k^2 - 12k - 45}{(5 - k)(k - 7)}$

5) $\frac{2}{a + 6} - \frac{3}{a - 1}$

$\frac{1}{25}$

$\frac{-a - 20}{(a + 6)(a - 1)}$

7) $\frac{p}{p^2 + p - 6} + \frac{3}{p - 2}$

8) $\frac{m - 3}{m + 3} - \frac{m + 3}{m - 3}$

$\frac{4p + 9}{(p - 2)(p + 3)}$

$\frac{-12m}{m^2 - 9}$