

Name : _____

Simplifying Expressions

Add/Sub: MS3

Simplify each expression.

1) $\frac{4m^2 + 6m}{8m} - 2m$

2) $\frac{7}{a+2} - \frac{4}{a+3}$

3) $\frac{p}{p+7} + \frac{4}{p-4}$

4) $\frac{1}{2x+5}$

5) $\frac{5n-8}{9n} - \frac{4}{n}$

6) $\frac{k+4}{11k+30}$

7) $\frac{2}{q} - \frac{7}{q(q+1)}$

8) $\frac{r^2+9}{r} + 3r$

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Answer key

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Simplifying Expressions

Simplify each expression.

1) $\frac{4m^2 + 6m}{8m} - 2m$

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

2) $\frac{7}{a+2} - \frac{4}{a+3}$

$$\frac{3a + 13}{(a + 2)(a + 3)}$$

3) $\frac{p}{p+7} + \frac{4}{p-4}$

$$\frac{p^2 + 28}{(p + 7)(p - 4)}$$

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5) $\frac{5n - 8}{9n} - \frac{4}{n}$

$$\frac{5n - 44}{9n}$$

7) $\frac{2}{q} - \frac{7}{q(q+1)}$

$$\frac{2q - 5}{q(q + 1)}$$

8) $\frac{r^2 + 9}{r} + 3r$

$$\frac{4r^2 + 9}{r}$$