

Name : _____

Simplifying Expressions

Add/Sub: ES4

Simplify each expression.

1) $\frac{a^2 + 7a}{a + 3} + \frac{12}{a + 3}$

2) $\frac{8y}{4} - \frac{4y}{4}$

3) $\frac{3n}{n^2} + \frac{2n}{n^2}$

5) $\frac{3p + 12}{p + 4} - \frac{4 + p}{p + 4}$

7) $\frac{18k^2}{3} - \frac{6k^2}{3}$

8) $\frac{6s}{s^2 - 9} - \frac{18}{s^2 - 9}$

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Name : _____

Answer key

Add/Sub: ES4

Simplifying Expressions

Simplify each expression.

1) $\frac{a^2 + 7a}{a + 3} + \frac{12}{a + 3}$

$a + 4$

2) $\frac{8y}{4} - \frac{4y}{4}$

y

3) $\frac{3n}{n^2} + \frac{2n}{n^2}$

$\frac{5}{n}$

5) $\frac{3p + 12}{p + 4} - \frac{4 + p}{p + 4}$

2

7) $\frac{18k^2}{3} - \frac{6k^2}{3}$

$4k^2$

8) $\frac{6s}{s^2 - 9} - \frac{18}{s^2 - 9}$

$\frac{6}{s + 3}$

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