

Name : _____

Simplifying Expressions

Add/Sub: ES1

Simplify each expression.

1) $\frac{3x+5}{x+5} + \frac{15+x}{x+5}$

2) $\frac{z}{z-1} - \frac{2z}{z-1}$

3) $\frac{3m}{m^2-4} - \frac{6}{m^2-4}$

4) $\frac{p^2+3p}{p+2} + \frac{2}{p+2}$

5) $\frac{8}{u-5} - \frac{7}{u-5}$

6) $\frac{2r}{r^2} + \frac{5r}{r^2}$

7) $\frac{9y}{5} - \frac{4y}{5}$

8) $\frac{15}{2t^3} - \frac{3}{2t^3}$

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Answer key

Add/Sub: ES1

Simplifying Expressions

Simplify each expression.

1) $\frac{3x+5}{x+5} + \frac{15+x}{x+5}$

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2) $\frac{z}{z-1} - \frac{2z}{z-1}$

$\frac{-z}{z-1}$

3) $\frac{3m}{m^2-4} - \frac{6}{m^2-4}$

$\frac{3}{m+2}$

4) $\frac{p^2+3p}{p+2} + \frac{2}{p+2}$

$p+1$

5) $\frac{8}{u-5} - \frac{7}{u-5}$

$\frac{1}{u-5}$

6) $\frac{2r}{r^2} + \frac{5r}{r^2}$

$\frac{7}{r}$

7) $\frac{9y}{5} - \frac{4y}{5}$

y

8) $\frac{15}{2t^3} - \frac{3}{2t^3}$

$\frac{6}{t^3}$