

Name : _____

Score : _____ Date : _____

Simplifying Expressions

Practice Worksheet

Simplify

1 $2(p^2 + 2p^2 - 5p^3) + 8p^3 + 19$

2 $17b + 8b^3 - 4 - 5(b^3 - 2)$

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

4 $\frac{6}{4 - p} - \frac{7}{4 - p}$

5 $\frac{5x - 8}{9x} - \frac{4}{x}$

6 $\frac{18g^2}{3} - \frac{6g^2}{3}$

7 $\frac{y}{y - 2} - \frac{4y}{y - 2}$

8 $\frac{c^2 - 12}{c + 3} - \frac{c}{c + 3}$

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Answers

1 $2(p^2 + 2p^2 - 5p^3) + 8p^3 + 19$

$$\underline{-2p^3 + 6p^2 + 19}$$

2 $17b + 8b^3 - 4 - 5(b^3 - 2)$

$$\underline{3b^3 + 17b + 6}$$

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

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

4 $\frac{6}{4 - p} - \frac{7}{4 - p}$

$$\underline{-\frac{1}{4 - p}}$$

5 $\frac{5x - 8}{9x} - \frac{4}{x}$

$$\underline{\frac{5x - 44}{9x}}$$

6 $\frac{18g^2}{3} - \frac{6g^2}{3}$

$$\underline{4g^2}$$

7 $\frac{y}{y - 2} - \frac{4y}{y - 2}$

$$\underline{-\frac{3y}{y - 2}}$$

8 $\frac{c^2 - 12}{c + 3} - \frac{c}{c + 3}$

$$\underline{c - 4}$$