

Name:

Date: Score:

Rational Expression Worksheet

Adding and Subtracting

① $\frac{7}{y-5} - \frac{4}{y-5}$

② $\frac{4}{a+1} + \frac{2}{a+1}$

③ $\frac{5}{3x^2} - \frac{1}{3x^2}$

④ $\frac{6}{x-1} - \frac{5x}{4}$

⑤ $\frac{5}{x+5} + \frac{4x}{2x+6}$

⑥ $\frac{6}{x-5} + \frac{x+2}{x-5}$

⑦ $\frac{4}{5b} - \frac{7a}{4b^2}$

⑧ $\frac{2x}{5x+4} + \frac{6x}{2x+3}$

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Answers

1 $\frac{7}{y-5} - \frac{4}{y-5}$

$$\frac{3}{y-5}$$

2 $\frac{4}{a+1} + \frac{2}{a+1}$

$$\frac{6}{a+1}$$

3 $\frac{5}{3x^2} - \frac{1}{3x^2}$

$$\frac{4}{3x^2}$$

4 $\frac{6}{x-1} - \frac{5x}{4}$

$$\frac{-5x^2 + 5x + 24}{4(x-1)}$$

5 $\frac{5}{x+5} + \frac{4x}{2x+6}$

$$\frac{2x^2 + 15x + 15}{(x+3)(x+5)}$$

6 $\frac{6}{x-5} + \frac{x+2}{x-5}$

$$\frac{x+8}{x-5}$$

7 $\frac{4}{5b} - \frac{7a}{4b^2}$

$$\frac{16b - 35a}{20b^2}$$

8 $\frac{2x}{5x+4} + \frac{6x}{2x+3}$

$$\frac{34x^2 + 30x}{(5x+4)(2x+3)}$$