

Adding Rational Expressions Practice Problems

Add the rational expressions. REMEMBER TO SIMPLIFY AT THE END!!!

1) $\frac{2x}{x-4} + \frac{7x}{x-4}$

2) $\frac{3}{2x-5} + \frac{5}{2x-5}$

3) $\frac{2}{6x^2} + \frac{1}{9x^3}$

4) $\frac{4x}{3} + \frac{8}{3x^3}$

5) $\frac{4}{4x^3} + \frac{7}{3x}$

6) $\frac{3}{x-2} + \frac{11}{x-2}$

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

8) $\frac{4x}{x-5} + \frac{4x}{x+2}$

9) $\frac{4}{x^2+8x+7} + \frac{2}{x^2+3x+2}$

10) $\frac{7}{x^2+6x+5} + \frac{6}{x^2+2x-15}$

Answers to Adding Rational Expressions Practice Problems

$$1) \frac{9x}{x-4}$$

$$2) \frac{8}{2x-5}$$

$$3) \frac{3x+1}{9x^3}$$

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

$$5) \frac{3+7x^2}{3x^3}$$

$$6) \frac{14}{x-2}$$

$$7) \frac{2(11x+6)}{(x+2)(5x+2)}$$

$$8) \frac{8x^2-12x}{(x-5)(x+2)}$$

$$9) \frac{2(3x+11)}{(x+7)(x+1)(x+2)}$$

$$10) \frac{13x-15}{(x+5)(x+1)(x-3)}$$