

EXERCISES Rewrite each of the following as a sum of simpler fractions.

1. $\frac{4}{(x+1)(x-5)}$

2. $\frac{2x-3}{x^2-5x+6}$

3. $\frac{5x}{2x^2+11x+12}$

4. $\frac{5x+1}{(x+3)(x+2)(x-4)}$

5. $\frac{4x^2-x+3}{(x+5)(x-1)(x-2)}$

6. $\frac{2x^2-5}{x^3-2x^2-3x}$

7. $\frac{x+2}{x^2+8x+16}$

8. $\frac{5-4x}{x^3+10x^2+25x}$

9. $\frac{5x^2-9x}{(x-4)(x-1)^2}$

10. $\frac{x^2-2}{(x+1)(x^2+3)}$

11. $\frac{3x^2+9x-4}{(x-1)(x^2+4x-1)}$

12. $\frac{6}{(x-5)(x^2-2x+3)}$