

1. Decompose into partial fractions:

(a) $\frac{8x - 3}{2x^2 - x}$

(b) $\frac{x - 4}{(x - 2)^2}$

(c) $\frac{3x^2 + 7x + 1}{x(x + 1)^2}$

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

(e) $\frac{5x^2 - 9x + 19}{(x - 4)(x^2 + 5)}$

(f) $\frac{3x - 13}{6x^2 - x - 12}$

(g) $\frac{7x^2 - 10x + 19}{(x - 3)(x^2 + 4)}$