

Extrema on an Interval

Write the form of the partial fraction decomposition of the rational expression. Do not solve for the constants.

1. $\frac{4}{x^2 - 8x}$

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

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

Use Partial Fractions to find the Integral.

9. $\int \frac{5}{x^2 + 3x - 4} dx$

13. $\int \frac{x^2 + 12x + 12}{x^3 - 4x} dx$

19. $\int \frac{x^2 + 3x - 4}{x^3 - 4x^2 + 4x} dx$

Note: this has a repeated factor. So, your denominators in your partial fractions will be x , $(x - 2)$, and $(x - 2)^2$