

polynomial division (Euklidian algorithm)

$$\begin{array}{r} (2x^5 - 13x^4 + 17x^3 - x^2 + 10x + 8) : (2x^2 - 3x) = x^3 - 5x^2 + x + 1 + \frac{13x + 8}{2x^2 - 3x} \\ \underline{- 2x^5 + 3x^4} \\ -10x^4 + 17x^3 \\ \underline{10x^4 - 15x^3} \\ 2x^3 - x^2 \\ \underline{- 2x^3 + 3x^2} \\ 2x^2 + 10x \\ \underline{- 2x^2 + 3x} \\ 13x + 8 \end{array}$$