

Consider some more examples.

Example 1: Divide the polynomial $3x^4 - 4x^3 - 3x - 1$ by $x - 1$.

By long division we have:

8 : Find the remainder obtained on dividing $p(x) = x^3 + 1$ by $x + 1$.

is result in another example.

Find the remainder when $x^4 + x^3 - 2x^2 + x + 1$ is divided by $x - 1$.

23. Factorise :

(i) $x^2 + 9x + 18$

(ii) $6x^2 + 7x - 3$

Factorise :

(i) $2x^3 - 3x^2 - 17x + 30$

(iii) $x^3 + x^2 - 4x - 4$

(ii) $x^3 - 6x^2 + 11x - 6$

(iv) $3x^3 - x^2 - 3x + 1$