

2. $x^3 - 6x^2 + 5x + 12$ has a factor $(x - (-1))$ compute all other factors:

$$(x - 3)(x - 2)^2$$

$$(x - 3)^2(x - 2)$$

$$(x - 4)(x - 3)(x + 1)$$

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

Solution

Apply Long Division.

$$(x - 4)(x - 3)(x + 1)$$