

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

$$(x - 1) (x + 1) (x + 2)$$

$$(x + 2)^3$$

$$(x - 1) x (x + 2)$$

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

Solution

Apply Long Division.

$$(x - 1) x (x + 2)$$