

2. $a^3 + 4a^2 + 3a$ has a factor $(a - (-3))$ compute all other factors:

$$(a - 2) (a + 1)^2$$

$$(a - 4) (a - 1) (a + 1)$$

$$a (a + 1) (a + 3)$$

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

Solution

Apply Long Division.

$$a (a + 1) (a + 3)$$