

1. $v^3 + 2v^2 - 15v - 36$ has a factor $(v - (-3))$ compute all other factors:

$$(v - 2)(v + 3)^2$$

$$(v + 3)^2(v + 4)$$

$$(v - 4)(v + 3)^2$$

$$(v + 1)(v + 3)^2$$

Solution

Apply Long Division.

$$(v - 4)(v + 3)^2$$