

1. $w^3 - 3w^2 - 10w + 24$ has a factor $(w - (-3))$ compute all other factors:

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

$$(w - 4) (w - 2) w$$

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

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

Solution

Apply Long Division.

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