

1. $y^3 - y^2 - 14y + 24$ has a factor $(y - (-4))$ compute all other factors:

$$(y - 3) (y - 1) (y + 1)$$

$$(y - 3) (y - 1) y$$

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

$$(y - 3)^2 (y + 1)$$

Solution

Apply Long Division.

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