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

1. $y^3 + 5y^2 + 8y + 4$ has a factor (y - (-2)) compute all other factors:

(y-1)(y+1)(y+2)

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

Solution

Apply Long Division. $(y + 1) (y + 2)^2$