```
5. y^3 + 7y^2 + 14y + 8 has a factor (y - (-4)) compute all other factors:
(y-1) (y+1) (y+2)
(y-2) (y+1) (y+3)
(y+1)(y+2)(y+4)
y (y + 1)^2
Solution
Apply Long Division.
```

(y+1) (y+2) (y+4)