$$(a-1) (a+1) (a+2)$$
 $(a-2) (a+2)^2$
 $(a-2) (a+2) (a+4)$
 $(a-4) (a-1) (a+2)$
Solution
Apply Long Division.
 $(a-2) (a+2) (a+4)$

2. $a^3 + 4a^2 - 4a - 16$ has a factor (a - (-4)) compute all other factors: