$$(x + 2) (x + 4)$$
 $(x + 1) (x + 4)$
 $(x - 2) (x + 1) (x + 4)$
 $(x - 2) (x + 2) (x + 4)$

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

2. $x^3 + 3x^2 - 6x - 8$ has a factor (x - (-4)) compute all other factors: