$$(q-4) (q+1) (q+4)$$
 $(q-4) q (q+4)$ 
 $(q-4)^2 (q+2)$ 

1.  $q^3 - 6q^2 + 32$  has a factor (q - (-2)) compute all other factors:

## Solution

Apply Long Division.

 $(q-4)^2 (q+2)$ 

 $(q-4)^2 (q-3)$