

2.  $r^3 - 13r + 12$  has a factor  $(r - (-4))$  compute all other factors:

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

$$(r - 3) (r + 2) (r + 4)$$

$$(r - 3) (r - 1) (r + 4)$$

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

**Solution**

Apply Long Division.

$$(r - 3) (r - 1) (r + 4)$$