9.6 Factor with Lead coefficient \neq 1

Steps for Factoring: Oput your polynomial in <u>Standard</u> form

- @ ALWAYS factor out a _GGE (if possible)
- 3 If your leading coefficient is negative, GCF is neg.
- Then factor COMPLETELY

But what happens when the L.C. # 1?

2)
$$3x^{2} + 16x + 13 = 13$$

$$(3x + 13)(x + 1)$$

$$13x + 3x$$

$$16x$$

.

$$2(2c^{2}-7c+3)^{-3}$$

$$2(2c-1)(c-3)$$

$$-c+-a=-7c$$

$$-6c$$

$$\begin{array}{c|c}
-1(8h^2 - 10h + 3) - 1 \\
-1(4h - 3)(2h - 1) \\
-6h \\
-4h \\
-10h
\end{array}$$

Solvel

$$\bigcirc 6y^2 - 5y - 4 = 0$$

$$(2) - 4x^2 = -12x - 112$$

$$33n^2 + 5 = 8n$$

CHALLENGE!
$$-23 \times^2 - 20 \times -6 \times^3 = 0$$