## 8-2 Factoring Polynomials... REVIEW!!

## Objectives:

8-2a: I can completely factor binomial and trinomial expressions.

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Factor out the GCF

$$
\begin{aligned}
& 4 a^{2} b^{2}-10 a b^{3}+18 a^{3} b^{4} \\
& 2 a b^{2}\left(1 a-5 b+9 a^{2} b^{2}\right)
\end{aligned}
$$

## You Try

Factor out the GCF

$$
6 y^{3}-14 y^{2}+10 y
$$

Check by multiplying the GCF back into the expression.

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Factor out the GCF

$$
4 x^{3}+6 x^{2}+2 x
$$

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Factor out the Greatest Common Binomial Factor

$$
\begin{gathered}
4 x(x-3)+5(x-3) \\
(x-3)(4 x+5)
\end{gathered}
$$

## You Try

Factor out the Greatest Common Binomial Factor

$$
4 a(a-3)+3(a-3)
$$

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$$
3 x^{3}-18 x^{2}+5 x-30
$$

Completely factor the quadratic expression.
How is this different?


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## $6 n^{2}+11 n+4$

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## Completely factor the quadratic expression.

$$
\frac{\left(x^{x^{3}+6 x^{2}+9 x}\right.}{x(x+3)(x+3)}
$$

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Hmmm...now what?

$$
\begin{aligned}
& x^{2}-4 \\
& x^{2}+0 x-4 \\
& (y+2)(x-2)
\end{aligned}
$$

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