1.0A  How do we find the factors of a polynomial?

*Quiz on Review Unit Friday 9/15*

**Do Now**

Find all the factors of 40.

What does it mean to find the “factors” of a number?

**Guided Practice:** Factor each polynomial and write the method of factoring used.

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<tr>
<td>1. $m^2 + 2m - 24$</td>
<td>2. $3p^2 - 2p - 5$</td>
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**NOTES:**

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<tr>
<td>3. $4n^2 - 49$</td>
<td>4. $20x^8y^2z^2 + 15x^5y^2z + 35x^3y^3z$</td>
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**NOTES:**
**You Try:** Factor each polynomial and write the method of factoring used.

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<tr>
<td>1.</td>
<td>2(n^2 + 3n - 9)</td>
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<tr>
<td>2.</td>
<td>9(x^2 - 16y^2)</td>
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<tr>
<td>3.</td>
<td>n(^2 + 4n - 12)</td>
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<td>4.</td>
<td>30(y^4z^3x^5) + 50(y^4z^5) - 10(y^4z^3x)</td>
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**Think Pair Share**

Using all methods of factoring discussed today, factor completely. Explain your process, in words.

12\(x^5 - 20x^4 + 3x^3\)

**Math Journal:** In your journal, write about 2 things you understood and one question you have.