

Notes: Factoring Trinomials, No GCMF

QUESTIONS	NOTES:																								
<p><u>$a > 1,$</u> <u>No GCMF</u></p>	<p>$ax^2 + bx + c$</p> <table border="1" data-bbox="581 212 841 453"> <tr> <td>ax^2</td> <td>___x</td> </tr> <tr> <td>___x</td> <td>c</td> </tr> </table> <p>Steps to Factoring:</p> <ol style="list-style-type: none"> 1. Multiply 'a' and 'c' terms 2. Use a M/S table to split 'b' term M = factors that multiply to the '(a)(c)' term S = sum of the factors that add to the 'b' term 3. Fill in box and work backwards using GCF to find factors <p>Examples:</p> <p>$4n^2 - 15n - 25$</p> <p>a = _____ b = _____ c = _____ (a)(c) = _____</p> <table border="1" data-bbox="363 869 552 1142"> <tr> <td>M</td> <td>S</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> <table border="1" data-bbox="829 905 1089 1146"> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table> <p>FACTORS: _____</p> <p>$5x^2 - 18x + 9$</p> <p>a = _____ b = _____ c = _____ (a)(c) = _____</p> <table border="1" data-bbox="363 1583 552 1856"> <tr> <td>M</td> <td>S</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> <table border="1" data-bbox="829 1614 1089 1856"> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table> <p>FACTORS: _____</p>	ax^2	___x	___x	c	M	S									M	S								
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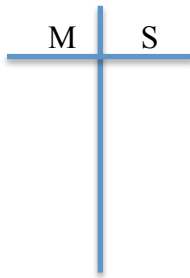
**$a < 1,$
No GCMF**

Steps to Factoring:

1. Factor out a (-1)
2. Multiply 'a' and 'c' terms
4. Use a M/S table to split 'b' term
M = factors that multiply to the '(a)(c)' term
S = sum of the factors that add to the 'b' term
5. Fill in box and work backwards using GCF to find factors

$$-6a^2 - 25a - 25$$

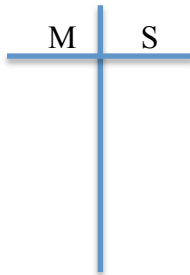
a = _____ b = _____ c = _____ (a)(c) = _____



FACTORS: _____

$$-3x^2 + 4x - 1$$

a = _____ b = _____ c = _____ (a)(c) = _____



FACTORS: _____