DATE\_\_\_\_\_

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## FACTORING POLYNOMIALS – Day 3

Factor completely.	
1. $8x^2 + 2x - 3 =$	2. $15x^2 + 35x - 30 =$
3. 16x <sup>2</sup> – 25 =	4. $2x^2 - 2x - 6 =$
Answer the following.	
5. Can $x^2 - 9x - 36$ be expressed as the product of two binomials? If so, what are they?	<ol> <li>Express 4x<sup>2</sup> – 324 as a product of factors.</li> </ol>
Yes / No	
7. Factor the binomial 5x <sup>2</sup> + 125.	8. Write 81x <sup>2</sup> – 64 in factored form.

9. Which of the following is <b>not</b> one of the factors of $2x^3 + 2x^2 - 4x$ ?	10. Which expression is a factor of $36x^2 - 49?$
A. 2x	A. 18x – 7
B. x + 1	B. 6x – 49
C. x – 1	C. 18x – 49
D. x + 2	D. 6x – 7
11. Which of the following shows $3x^2$ A. $(3x + 1)(x + 6)$ B. $(3x - 1)(x - 6)$	<sup>2</sup> – 19x + 6 in factored form?
C. $(3x + 1)(x - 6)$	

