NAME_____DATE_____PER._____

FACTORING POLYNOMIALS – Day 3

Factor completely.

1. $x^2 + 3x - 18 =$	2. $x^2 + 4x + 3 =$
3. $3x^2 - 21x - 54 =$	4. $4x^2 - 36x + 80 =$
5. $4x^2 - 28x + 32 =$	6. $x^2 - 18x + 77 =$
7. $x^2 - 64 =$	8. $2x^3 + 2x^2 - 4x =$

9. Express $4x^2 - 324$ as a product of factors.	10. Factor the binomial $5x^2 + 125$.
11. Factor the trinomial $2x^2 - 2x - 112$.	12. Find the expression that represents $3x^2 - 30x + 72$ in factored form.
13. Can $x^2 - 9x - 36$ be expressed as the product of two binomials? If so, what are they?	14. Factor completely: $2x^2 - 2x - 6$.

_____15. Which of the following represents $4x^2 + 10x - 6$ in factored form?

A. $(x + 3)(2x - 1)$

B. $(2x - 1)(2x + 6)$

C. $2(x + 3)(2x - 1)$

D. $2(x - 3)(2x + 1)$