Name _____

Date _____ Pd. _____

Notes: Perfect Squares and Factoring

Perfect Square Trinomial	

Squaring a Binomial	Factoring a Perfect Square Trinomial
$(a + 4)^2 =$ $=$	$a^2 + 8a + 16 =$ $=$
$(2x - 3)^2 =$ $=$	$4x^2 - 12x + 9 =$ $=$

Example 1 **Determine whether $16n^2 - 24n + 9$ is a perfect square trinomial. If so, factor it.**

Example 2 **Factor $16x^2 - 32x + 15$.**

Name _____

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Exit Card: Perfect Squares and Factoring

What value of c makes the expression $x^2 + 12x + c$ a trinomial square?

A. 6 **B.** 12 **C.** 36 **D.** 144

Name _____

Date _____ Pd. _____

Exit Card: Perfect Squares and Factoring

What value of c makes the expression $x^2 + 12x + c$ a trinomial square?

A. 6 **B.** 12 **C.** 36 **D.** 144

Name _____

Date _____ Pd. _____

Homework: Pages 512 – 513 (18, 19, 25 – 33 odd)

18. Factor $a^2 - 24a + 144$	19. Factor $4y^2 - 44y + 121$
25. Factor $4k^2 - 100$	27. Factor $x^2 + 6x - 9$
29. Factor $9t^3 + 66t^2 - 48t$	31. Factor $20n^2 + 34n + 6$
33. Factor $24x^3 - 78x^2 + 45x$	