

Homework #4b Factoring Trinomials

Date _____ 5T _____

Factor each completely. All are factorable. Always check for a common factor.

1) $5x^2 - 16x + 12$

2) $45v^2 + 70v + 25$

3) $6m^2 + 36m + 30$

4) $25n^2 - 9$

5) $5n^2 - 11n - 36$

6) $p^2 + 12p + 27$

7) $4x^2 + 20x + 25$

8) $7v^2 - 71v + 10$

9) $5x^2 - 80x + 300$

10) $32n^2 - 50$

11) $24m^2 + 51m + 27$

12) $3v^2 - 26v + 48$

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Factor each completely. All are factorable. Always check for a common factor.

1) $5x^2 - 16x + 12$

$(5x - 6)(x - 2)$

2) $45v^2 + 70v + 25$

$5(v + 1)(9v + 5)$

3) $6m^2 + 36m + 30$

$6(m + 1)(m + 5)$

4) $25n^2 - 9$

$(5n + 3)(5n - 3)$

5) $5n^2 - 11n - 36$

$(5n + 9)(n - 4)$

6) $p^2 + 12p + 27$

$(p + 9)(p + 3)$

$$7) 4x^2 + 20x + 25$$

$$(2x + 5)^2$$

$$8) 7v^2 - 71v + 10$$

$$(7v - 1)(v - 10)$$

$$9) 5x^2 - 80x + 300$$

$$5(x - 6)(x - 10)$$

$$10) 32n^2 - 50$$

$$2(4n + 5)(4n - 5)$$

$$11) 24m^2 + 51m + 27$$

$$3(m + 1)(8m + 9)$$

$$12) 3v^2 - 26v + 48$$

$$(3v - 8)(v - 6)$$