Name_____

Homework #5.4b Factoring Trinomials

Date_____ 5T_____

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

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