Math 2   Name_____
Quiz 2.5-2.6 Practice

Factor each completely.

1) $9n^2 - 33n + 28$

2) $8k^2 - 77k - 30$

3) $6n^2 - 31n + 18$

4) $6a^2 + 47ab + 90b^2$

5) $9m^2 + 8mn - n^2$

6) $9u^2 - 64uv + 60v^2$

Factor each completely. Find the GFC first.

7) $12r^2 + 105r - 27$

8) $54n^2 - 408n - 192$

9) $40m^2 + 250m + 315$

10) $27m^2 + 27mn - 30n^2$

11) $20x^2 - 78xy + 28y^2$

12) $16m^2 + 52mn - 90n^2$

Quiz 2.5-2.6 Practice

Factor each completely.

1) $9n^2 - 33n + 28$

$\quad (3n - 4)(3n - 7)$

2) $8k^2 - 77k - 30$

$\quad (k - 10)(8k + 3)$

3) $6n^2 - 31n + 18$

$\quad (2n - 9)(3n - 2)$

4) $6a^2 + 47ab + 90b^2$

$\quad (3a + 10b)(2a + 9b)$

5) $9m^2 + 8mn - n^2$

$\quad (m + n)(9m - n)$

6) $9u^2 - 64uv + 60v^2$

$\quad (u - 6v)(9u - 10v)$

Factor each completely. Find the GFC first.

7) $12r^2 + 105r - 27$

$3(r + 9)(4r - 1)$

8) $54n^2 - 408n - 192$

$6(n - 8)(9n + 4)$

9) $40m^2 + 250m + 315$

$5(2m + 9)(4m + 7)$

10) $27m^2 + 27mn - 30n^2$

$3(3m - 2n)(3m + 5n)$

11) $20x^2 - 78xy + 28y^2$

$2(5x - 2y)(2x - 7y)$

12) $16m^2 + 52mn - 90n^2$

$2(2m + 9n)(4m - 5n)$