Math 2 Name_____

Quiz 2.3 & 2.4 Factoring (leading coefficient is 1 or Prime) Practice

Factor each completely.

1) $x^2 + 4x + 3$

2) $n^2 + 6n + 9$

3) $n^2 - 8n + 12$

4) $k^2 + 18k + 80$

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

6) $x^2 - 7xy + 6y^2$

7) $2x^2 + 3x - 9$

8) $3k^2 - 8k + 5$

9) $7x^2 + 75x + 50$

10) $7k^2 - 27k - 40$

11) $3x^2 - 2xy - 16y^2$

12) $5m^2 - 33mn - 14n^2$

Math 2 Name_____

Quiz 2.3 & 2.4 Factoring (leading coefficient is 1 or Prime) Practice

Factor each completely.

1) $x^2 + 4x + 3$

$(x + 3)(x + 1)$

2) $n^2 + 6n + 9$

$(n + 3)^2$

3) $n^2 - 8n + 12$

$(n - 6)(n - 2)$

4) $k^2 + 18k + 80$

$(k + 8)(k + 10)$

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

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

6) $x^2 - 7xy + 6y^2$

$(x - y)(x - 6y)$

7) $2x^2 + 3x - 9$

$(2x - 3)(x + 3)$

8) $3k^2 - 8k + 5$

$(3k - 5)(k - 1)$

9) $7x^2 + 75x + 50$

$(7x + 5)(x + 10)$

10) $7k^2 - 27k - 40$

$(7k + 8)(k - 5)$

11) $3x^2 - 2xy - 16y^2$

$(3x - 8y)(x + 2y)$

12) $5m^2 - 33mn - 14n^2$

$(5m + 2n)(m - 7n)$