Math II

Name_____ ID: 1

Factoring Perfect Square Trinomials

Date_____ Period_____

Factor each completely.

1) $x^2 + 8x + 16$

2) $25v^2 - 20v + 4$

Remember: When the quadratic factors into the same two factors, you must rewrite it as that factor squared.

$(A + B)(A + B) \longrightarrow (A + B)^2$

$(A - B)(A - B) \longrightarrow (A - B)^2$

3) $k^2 + 4k + 4$

4) $b^2 - 10b + 25$

5) $4n^2 - 4n + 1$

6) $4m^2 + 12m + 9$

7) $25x^2 - 10x + 1$

8) $25m^2 - 30m + 9$

9) $x^2 - 8x + 16$

10) $x^2 + 2x + 1$

11) $75n^2 + 60n + 12$

12) $8x^2 + 40x + 50$

13) $27k^2 - 72k + 48$

14) $50r^2 + 20r + 2$

15) $12x^2 - 36x + 27$

16) $45v^2 - 30v + 5$

17) $18b^2 + 24b + 8$

18) $36k^2 - 96k + 64$

19) $36n^2 + 48n + 16$

20) $45n^2 + 30n + 5$