Honors Precalculus Name_____ ID: 1

Factoring and Complete Square Review

Period____

Factor each completely.

1) $x^2 + x - 56$

2) $m^2 + 4m - 32$

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

4) $n^2 - 12n + 27$

5) $5p^2 + 24p - 5$

6) $3x^2 - 8x + 4$

7) $5x^2 - 13x - 6$

8) $6v^2 + 22v + 20$

9) $9x^2 + 45x + 50$

10) $8n^2 + 39n - 54$

Solve each equation by completing the square.

11) $n^2 - 12n - 27 = 0$

12) $n^2 + 10n - 9 = 0$

Answers to Factoring and Complete Square Review (ID: 1)

1) $(x-7)(x+8)$
2) $(m-4)(m+8)$
3) $(x-4)^2$
4) $(n-3)(n-9)$
5) $(5p-1)(p+5)$
6) $(3x-2)(x-2)$
7) $(5x+2)(x-3)$
8) $2(3v+5)(v+2)$
9) $(3x+10)(3x+5)$
10) $(n+6)(8n-9)$
11) $\{13.937, -1.937\}$
12) $\{0.831, -10.831\}$