Factoring Trinomials (a = 1)

Factor each completely.

1) $b^2 + 8b + 7$

2) $n^2 - 11n + 10$

3) $m^2 + m - 90$

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

5) $n^2 - 10n + 9$

6) $b^2 + 16b + 64$

7) $m^2 + 2m - 24$

8) $x^2 - 4x + 24$

Solve each equation by using the zero product property.

1) $(n - 5)(n + 3) = 0$

2) $(x - 3)(x + 1) = 0$

3) $(a + 3)(a + 8) = 0$

4) $m(m + 7) = 0$

5) $(3x - 8)(x - 3) = 0$

6) $(3p + 1)(8p - 3) = 0$

7) $(a - 7)(a - 3) = 0$

8) $(4v + 5)(v + 7) = 0$

9) $3p(5p - 1) = 0$

10) $(v + 8)^2 = 0$

Solve each equation by factoring.

1) $x^2 + 10x + 21 = 0$

2) $a^2 + 7a - 8 = 0$

3) $k^2 + 2k - 35 = 0$

4) $4x^2 + 20x - 24 = 0$

5) $3n^2 - 75 = 0$

6) $v^2 - 5v = 0$

Algebra 1 Summary Assignment Week 2

Factor Completely. If non-factorable, say so.

1. $2a^2 - 6a$	2. $x^2 - 26x + 25$
3. $x^2 + 12x + 36$	4. $y^2 - 4y - 45$
5. $w^2 - 6w + 7$	6. $2x^2 + 10x + 8$

Solve for x. Show all work. Circle your answers.

7. $x^2 - 3x = 0$	8. $(2x-5)(x+7) = 0$
9. $x^2 + 2x - 15 = 0$	10. $x^2 + 5x = 24$