Ch. 21 - Board Problems

ADD

① $7x^2 - 8x + 3$
   $-2x^2 - 8x - 3$

② $3x^2 - 3x - 3$
   $+ 4x^2 + 4x + 4$

MULTIPLY.

③ $3x - 1$
   $* \quad 8x + 7$

④ $6x + 8$
   $* \quad 5x - 8$

FOIL.

⑤ $(7x - 6)(5x + 6) =$

⑥ $(8n + 1)(6x - 3) =$

Ch. 21 - FACTORING TRINOMIALS

REMEMBER HOW TO FACTOR REGULARLY.

$$6x + 3 \quad \text{FACTORED} = \underline{\hspace{4cm}}$$

BECAUSE $\underline{\hspace{0.8cm}}(\hspace{2cm}) = 6x + 3$

REMEMBER FOIL!

$$(x + 3)(x - 6) = \underline{\hspace{4cm}}$$

FACTORING IS THE OPPOSITE OF FOIL.

EX 1 $\quad x^2 + 8x + 12$

EX. 2 $\quad x^2 - 11x + 18$

EX. 3 $\quad x^2 - x - 56$

Algebra   Problems of the Week, #5

Name_____

Solve simultaneous equations by SUBSTITUTION.

   1.   X – 3y = -6
           -4x + 9y =   9

Solve simultaneous equations by ELIMINATION.

   2.   2x + 8y =   6
           -5x - 20y = -15

   3.   3   + 2x - y = 0
          -3   - 7y = 10x

Name_____

Factoring Trinomials (a = 1)

Date_____ Period_____

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) $x^2 - 4x + 24$

9) $k^2 - 13k + 40$

10) $a^2 + 11a + 18$

11) $n^2 - n - 56$

12) $n^2 - 5n + 6$

Build a rectangle and find the factors. Check by multiplying.

1. $X^2 + 4X + 4$

2. $X^2 + 5X + 6$

3. $X^2 + 11X + 10$

4. $X^2 + 6X + 8$

5. $X^2 + 8X + 7$

6. $X^2 + 8X + 12$

7. $X^2 + 12X + 11$

8. $X^2 + 7X + 6$

9. $X^2 + 9X + 14$

10. $X^2 + 16X + 15$

11. $X^2 + 3X + 2$

12. $X^2 + 4X + 3$

13. $X^2 + 9X + 8$

14. $X^2 + 19X + 18$

15. $X^2 + 9X + 20$

16. $X^2 + 10X + 21$