

9.2 Factor Trinomials (Guess and Check)

CA #2

Algebra 1

Name: _____

Factor the following if possible. Check your answer by multiplying! (a=1 and Dif. of Squares)

1. $3x^3 - 6x^2 - 9x$

2. $2x^2 - 50$

3. $d^2 + 16d + 15$

4. $x^3 - 49x$

5. $x^2 - 8x + 15$

6. $x^3 + x^2 - 12x$

Factor the following if possible. Check your answer by multiplying! (a is not 1)

7. $3x^2 + 14x + 15$

8. $7x^2 + 9x + 2$

Solve the following by factoring.

9. $0 = b^3 - 36b$

10. $2x^2 + 16x = -24$

11. $2d^3 + 8d^2 = 64d$

12. $2x^2 + 13x - 7 = 0$

Answers to 9.2 CA #2

1. $3x(x - 3)(x + 1)$	2. $2(x - 5)(x + 5)$	3. $(d + 15)(d + 1)$	4. $x(x - 7)(x + 7)$	5. $(x - 3)(x - 5)$
6. $x(x + 4)(x - 3)$	7. $(3x + 5)(x + 3)$	8. $(7x + 2)(x + 1)$	9. $b = -6, 0, 6$	10. $x = -6, -2$
11. $d = 0, -8, 4$	12. $x = \frac{1}{2}, -7$			