

GCF: Write each polynomial below as a factored expression involving the GCF of the polynomial. You then check your answer by distributing the GCF. YOU MUST CHECK!!!!

(1) $6x^2 + 10x$

(2) $18x - 99$

(3) $24x^2 - 54x$

$2x(3x + 5)$

Check:

$2x(3x + 5)$

$6x^2 + 10x$

(4) $8x^2 + 32x + 88$

(5) $30x^3 - 60x^2 + 6x$

(6) $42x^4 - 70x^3 - 14x^2$

Rewrite each of the following expressions as the product of two binomials by factoring out a common binomial factor. Watch out for the subtraction problems (b, c, and d)

(7) $(x + 7)(x + 12) + (x + 5)(x + 12)$

(8) $(3x - 4)(2x - 3) - (2x - 3)(5x - 8)$

(9) $(7x - 11)(x - 6) - (x - 6)(4x + 6)$

(10) $(2x + 7)(5x - 8) - (2x + 7)(7x + 8)$

Name _____

Alg1 Q3 Test 3 Review

Test: Tuesday, March 15, 2016

Due: March 14, 2016

Factoring

Factor using your knowledge about the Difference of Two Squares (D.O.T.S.):

11) $x^2 - 121$

12) $9x^2 - 16$

13) $49x^2 - 1$

14) $x^2 - y^2$

15) $4a^2 - 81b^2$

16) $144a^2 - b^2$

17) $196x^2 - 25$

18) $225x^2 - 121$

19) $9x^2 - 400$

20) $64x^2 - 169y^2$

21) $36x^2 - 289y^2$

22) $100c^2 - d^2$

Factor each trinomial into the product of two binomials:

23) $x^2 + 13x + 36$

24) $x^2 - 4x - 32$

25) $x^2 - 19x + 88$

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Factoring

26) $x^2 + x - 56$

27) $x^2 - 8x - 84$

28) $x^2 + 27x + 72$

29) $x^2 - 24x + 144$

30) $x^2 + 13x - 48$

31) $x^2 - 21x + 80$

32) $x^2 + 18x + 80$

33) $x^2 + 3x - 108$

34) $x^2 - 33x - 108$

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Alg1 Q3 Test 3 Review

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Factoring

Same rules, same steps, more difficult problems!!! Enjoy, little homies!!!

37) $4x^2 - 16x + 7$

38) $8x^2 + 22x + 5$

39) $6x^2 - 5x - 10$

40) $9x^2 + x - 8$

41) $12x^2 - 13x + 3$

42) $16x^2 - 2x - 3$

43) $4x^2 + 7x - 36$

44) $14x^2 + 37x + 5$

45) $10x^2 - 27x + 5$