

Algebra I - Unit 8: Topic 1 - Four Term Grouping

Practice - Four Term Grouping

pp 524 - 537

Name _

Period_

Factor the polynomial expression using the box or the four-term grouping method.

__ Date _

1.
$$6x^3 + 4x^2 + 3x + 2$$

2.
$$4b^3 - 6b^2 + 10b - 15$$

3.
$$2m^3 - 2m^2 + 3 - 3m$$

4.
$$-5k^2 + k^3 - 4k + 20$$

5.
$$-8a^2 + 2a^3 - 12 + 3a$$

6.
$$6x^3 + 18x^2 + x + 3$$

7.
$$4t^3 + 7 + 4t + 7t^2$$

8.
$$-24y^2 - 3y + 36 + 2y^3$$

~ card put in box!



9.
$$x^2 + 7x + 10$$

A.
$$(x+7)(x-7)$$

10.
$$2x^3 + 5x^2 + 6x + 15$$

B.
$$(2x-1)(2x+3)$$

11.
$$x^2 - 49$$

C.
$$(x+5)(x+2)$$

12.
$$4x^2 + 4x - 3$$

D.
$$(x^2+3)(2x+5)$$

HW Help - Four Term Grouping No work = no credit = no kidding!

Don't forget to reorder...biggest exponent first. If there are 2 negatives in your box, then at least one factor will be negative. The order you put your binomials doesn't matter.

1.
$$(3x + 2)(2x^2 + 1)$$

2.
$$(2b - 3)(2b^2 + 5)$$

5.
$$(a - 4)(2a^2 + 3)$$

6.
$$(x + 3)(6x^2 + 1)$$

7.
$$(4t + 7)(t^2 + 1)$$

8.
$$(y - 12)(2y^2 - 3)$$

9. C

10. D For #9 - 12, you can only put 4 terms into

11. A the box. Try to multiply your answer choices

12. B to match to the polynomial.

I will not be here for the rest of the week. If you need help, please find another math teacher for tutorials! They won't bite, promise. Don't forget about Mrs. Cole in A106.