

Pull out pink 2.8 ws to correct!

Math 2A Section 2.8

Name _____

Factor by Grouping

Date _____ Period _____

Factor each completely.

1) $25v^3 - 15v^2 + 5v - 3$

2) $4x^3 + x^2 + 8x + 2$

3) $10p^3 - 25p^2 + 6p - 15$

4) $20n^3 - 4n^2 + 15n - 3$

5) $3m^3 - 9m^2 + 2m - 6$

6) $r^3 + 5r^2 + 3r + 15$

7) $12x^3 + 4x^2 + 9x + 3$

8) $5b^3 - 10b^2 + b - 2$

9) $2k^3 - 4k^2 + k - 2$

10) $20n^3 - 5n^2 + 16n - 4$

11) $xy - 6x - 6y + 36$

12) $147xy - 126x + 105y - 90$

13) $7ab + 6a^2 + b^2$

14) $56mn - 8m + 35n - 5$

15) $2xy + 6x + y^2 + 3y$

16) ~~$(25mn - 30m^2 - 15n + 18m)$~~

$5m(5n - 6m) - 3(5n - 6m)$

$(5n - 6m)(5m - 3)$

17) $6v^3 - 48v^2$

18) $3r^2 - 3r$ $(5m - 3)(5n - 6m)$

$3r(r - 1)$

19) $2m^3 - 20m^2$

20) $6a^3 + 36a^2$

Math 2A Section 2.8

Name _____

Factor by Grouping

Date _____ Period _____

Factor each completely.

1) $25v^3 - 15v^2 + 5v - 3$

$$(5v^2 + 1)(5v - 3)$$

2) $4x^3 + x^2 + 8x + 2$

$$(x^2 + 2)(4x + 1)$$

3) $10p^3 - 25p^2 + 6p - 15$

$$(5p^2 + 3)(2p - 5)$$

4) $20n^3 - 4n^2 + 15n - 3$

$$(4n^2 + 3)(5n - 1)$$

5) $3m^3 - 9m^2 + 2m - 6$

$$(3m^2 + 2)(m - 3)$$

6) $r^3 + 5r^2 + 3r + 15$

$$(r^2 + 3)(r + 5)$$

7) $12x^3 + 4x^2 + 9x + 3$

$$(4x^2 + 3)(3x + 1)$$

8) $5b^3 - 10b^2 + b - 2$

$$(5b^2 + 1)(b - 2)$$

9) $2k^3 - 4k^2 + k - 2$

$$(2k^2 + 1)(k - 2)$$

10) $20n^3 - 5n^2 + 16n - 4$

$$(5n^2 + 4)(4n - 1)$$

$$11) xy - 6x - 6y + 36$$

$$(x - 6)(y - 6)$$

$$12) 147xy - 126x + 105y - 90$$

$$3(7x + 5)(7y - 6)$$

$$13) 7a^2 + 6a^2 + 3a^2$$

$$(a + b)(b + 6a)$$

$$14) 56mn - 8m + 35n - 5$$

$$(8m + 5)(7n - 1)$$

$$15) 2xy + 6x + y^2 + 3y$$

$$(2x + y)(y + 3)$$

$$16) 25mn - 30m^2 - 15n + 18m$$

$$(5m - 3)(5n - 6m)$$

$$17) 6v^3 - 48v^2$$

$$6v^2(v - 8)$$

$$18) 3r^2 - 3r$$

$$3r(r - 1)$$

$$19) 2m^3 - 20m^2$$

$$2m^2(m - 10)$$

correct
19 x 10 ↑

$$20) 6a^3 + 36a^2$$

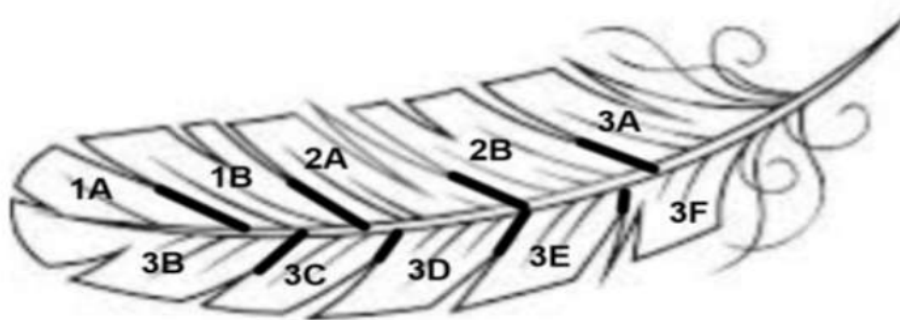
$$6a^2(a + 6)$$

Update these sheets / Organize folders

Name _____

Standard	Essential Learnings	Form A	Form B	Form C
1A	I can simplify expressions with rational exponents.			
1B	I can simplify expressions with radicals and convert between radicals and rational exponents.			
2A	I can pull out the greatest common factor and factor expressions with four terms.			
2B	I can factor trinomials.			
3A	I can solve quadratic functions.			
3B	I can identify key features of quadratic functions.			
3C	I can write quadratic equations given points and graphs.			
3D	I can apply properties of quadratic functions to solve story/real life problems.			
3E	I can perform operations with complex numbers			
3F	I can solve systems of equations			

Score	0	5	6.5	8	10
	Student haven't done anything correctly	Student shows limited understanding	Student demonstrates partial understanding	Student demonstrates understanding but makes an error related to the standard	Student demonstrates complete mastery



Standard 2A Quiz

Be sure to fully simplify each problem!

Use your calculator to double check calculations

Put answers in answer box carefully

When finished:

Turn quiz in basket

Study for / Retake Quiz 1A or 1B if necessary

✦ Intro to factoring guided notes / Canvas - do by Mon
Finish missing hw/correct hw mistakes/read

