

Bell Ringer

FOIL

Thursday 9/13

F O I L

Multiply the polynomials.

1. $(x-6)(4x+3)$

$4x^2 - 21x + 18$

x	-6
$4x^2$	$-24x$
$+3$	-18

3. $(x+2)(x^2+3x-4)$

	x^2	$+3x$	-4
x	x^3	$3x^2$	$-4x$
$+2$	$2x^2$	$6x$	-8

$x^3 + 5x^2 + 2x - 8$

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

$= (3x+2)(3x+2)$

$9x^2 + 6x + 6x + 4$

$9x^2 + 12x + 4$

4. $3x^2y(5x+2x^3y-4x)$

$15x^3y + 6x^5y^2 - 12x^3y$

get out 2.6 1-12 all to correct

get out 2.6 1-12 all to correct, pg 86

1. $(2n - 3)(2n - 1)$

7. $3(2s + 3)(s + 8)$

2. $(3r - 4)(2r - 5)$

8. $5(w - 2)(4w - 1)$

3. $(3t + 5)(2t - 1)$

9. $(3x + 1)(x + 5)$

4. $(4w + 3)(w - 2)$

10. $(5q + 2)(2q + 1)$

5. $2x + 7$ and $4x + 1$

11. No factors of 20 sum to

6. $5x + 2$ and $3x - 4$

12. $3x + 8$ and $2x - 9$

Remember hw 2.7 1-14 due tomorrow

Quiz 2B tomorrow - 8 questions

#3 pg 95

If the area of the square is $100r^2 - 220r + 121$, find the side length of the square

$10 \cdot 10$ $10 \cdot 11 = 110$
 $10 \cdot 11$ 110 $11 \cdot 11$

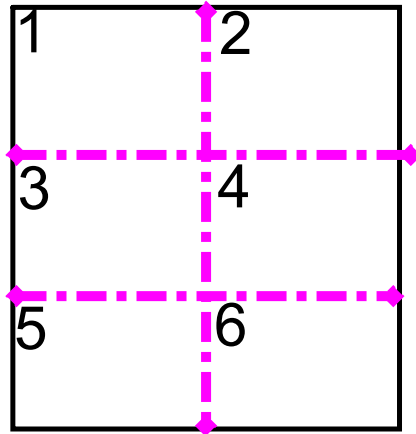
$+12,100$
 -110 -110
 -220

$100r^2 - 220r + 121$

$(100r^2 - 10r - 10r + 121)$
 $10r(10r - 1) - 11(10r - 11)$
 $(10r - 1)(10r - 11)$

Self Assessment

Fold paper into sixths....
Number the corners 1-6



1

Factor Completely

1 min

$$\begin{array}{l} x^2 - x - 12 \\ \boxed{(x+3)(x-4)} \end{array} \quad \begin{array}{c} -12 \\ +3 \quad -4 \\ -1 \end{array}$$

2

Factor Completely

1 min

$$x^2 - 9x + 20$$

$(x - 4)(x - 5)$

~~$\begin{array}{cc} +20 & \\ -4 & -5 \\ -9 & \end{array}$~~

3

Factor Completely

2 min

$$4x^2 - 36x + 80$$
$$4(x^2 - 9x + 20)$$
$$4(x - 4)(x - 5)$$

~~$$\begin{array}{r} +20 \\ -4 \quad -5 \\ \hline -9 \end{array}$$~~

4

Factor Completely

2 min

$$15x^2 + 22x - 5$$

$$(3x+5)(5x-1)$$

	3x + 5	
5x	$15x^2$	$+25x$
-1	$-3x$	-5

	-75	
+25		-3
		+22

5

Factor Completely

2 min

$$\begin{array}{l} 6x^2 + 13x - 5 \\ \hline (6x^2 + 15x)(-2x - 5) \\ 3x(2x + 5) - 1(2x + 5) \\ \boxed{(2x + 5)(3x - 1)} \end{array} \quad \begin{array}{l} \cancel{-30} \\ +15 \quad \cancel{-2} \\ \quad \quad \quad \cancel{+13} \end{array}$$

6

Factor Completely

1 min

$$9x^2 - 4 \quad 9x^2 + 0x - 4$$
$$(3x)^2 - (2)^2$$
$$(3x+2)(3x-2)$$

I have, who has...

then

Quiz 2B tomorrow

Finish missing hw

Quiz 2B Review - bring when done for a treat

Secondary Math II

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Name _____

Quiz 2B Review

Date _____ Period _____

Factor each completely.

1) $a^2 - a - 72$

2) $m^2 + 5m + 4$

3) $5x^2 - 5x - 150$

4) $x^3 + 9x^2 + 18x$

5) $2x^2 - 27x + 70$

6) $3n^2 + 26n + 16$

7) $3m^2 + 4m - 32$

8) $5n^2 - 19n + 18$

9) $p^2 - 36$

10) $n^2 - 64$

11) $m^2 - 1$

12) $49x^2 - 100$

13) $9v^2 - 49$

14) $25b^4 - 4$

Secondary Math II

Name _____

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Quiz 2B Review

Date _____ Period _____

Factor each completely.

1) $a^2 - a - 72$

$(a + 8)(a - 9)$

2) $m^2 + 5m + 4$

$(m + 1)(m + 4)$

3) $5x^2 - 5x - 150$

$5(x - 6)(x + 5)$

4) $x^3 + 9x^2 + 18x$

$x(x + 6)(x + 3)$

5) $2x^2 - 27x + 70$

$(2x - 7)(x - 10)$

6) $3n^2 + 26n + 16$

$(3n + 2)(n + 8)$

7) $3m^2 + 4m - 32$

$(3m - 8)(m + 4)$

8) $5n^2 - 19n + 18$

$(5n - 9)(n - 2)$

9) $p^2 - 36$

$(p + 6)(p - 6)$

10) $n^2 - 64$

$(n + 8)(n - 8)$

11) $m^2 - 1$

$(m + 1)(m - 1)$

12) $49x^2 - 100$

$(7x + 10)(7x - 10)$

13) $9v^2 - 49$

$(3v + 7)(3v - 7)$

14) $25b^4 - 4$

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

