

Bell Work

3/2/2015

Please get a piece of paper:

Multiply the following:

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

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

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

$$(6x^2 + 7x + 2)$$

Please get out your notes from Friday

What are like terms?

Have the same variables and
the same # of variables.

Are the following like terms?

$$x^2 \quad \& \quad z^2 \quad \text{no}$$

$$xy^2 \quad \& \quad 3xy^2 \quad \text{Yes}$$

$$2w^6 \quad \& \quad 6w \quad \text{No}$$

$$\underline{xy^2z} \quad \& \quad 11\underline{xzy^2} \quad \text{Yes}$$

$$12x^4 \quad \& \quad 48x \quad \underline{\text{No}}$$

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Are the following like terms?

$$x^2 + z^2 = x^2 + z^2$$

$$1xy^2 + 3xy^2 = 4xy^2$$

$$2w^6 + 6w = 2w^6 + 6w$$

$$xy^2z + 11xzy^2 = 12xy^2z \text{ OR } 12xzy^2$$

$$12x^4 + 48x = 12x^4 + 48x$$

Please get out your notes from Friday

$$(3x - 3)(4x + 5)$$

$3x$ -3 $12x^2 + 3x - 15$

$4x$	$12x^2$	$-12x$
5	$15x$	-15

$$\begin{array}{r} 2x \quad -6 \\ \begin{array}{|c|c|} \hline X & \begin{array}{c} 2x^2 \\ -6x \end{array} \\ \hline 5 & \begin{array}{c} 10x \\ -30 \end{array} \\ \hline \end{array} \end{array}$$

$2x^2 + 4x - 30$

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

	x^2	$-2x$	3
x	x^3	$-2x^2$	$3x$
1	x^2	$-2x$	3

$$x^3 + x^2 + 1x + 3$$

$$x^3 - 2x^2 + x^2 - 2x + 3x + 3$$

$$x^3 + x^2 + x + 3$$

$$(8y^2 + 3y - 4)(2y - 5)$$

	$8y^2$	$3y$	-4
$2y$	$16y^3$	$6y^2$	$-8y$
-5	$-40y^2$	$-15y$	$+20$

$$16y^3 + 6y^2 - 40y^2 - 8y - 15y + 20$$

$$16y^3 - 34y^2 - 23y + 20$$