Name: _____

Guided notes 2c.3 Math 9 – Wolfe

Distributive Property

Let's review something you definitely already know – we can write a	
multiplication equation in a bunch of different ways:	

5(8) = 40

We can play with the order in which we do our multiplication and addition while still getting the same result:

5(8) = 40

But why would we want to do this? Remember, you can only add or subtract ______

_____, or terms that have exactly the same variables to the same powers. What if

what's inside the parentheses aren't like terms? Then the only way to get rid of the

parentheses is to ______.

Examples:

Let's write the general form of this rule:

The Distributive Property

The danger, as always, is in the details here – usually a minus sign or two that gets dropped, or adding when you should have multiplied. Let's look at a few examples so we know how to deal with specific situations:

You don't *have* to write out the middle step if you are comfortable doing the multiplication in your head. When I saw "show your work," I expect to see:



_ •

So what do we do with this property? We use it to solve equations, of course! If you see an

equation with ______, the first thing to do is ______

6 (x + 4) = 42	
	Distribute
	Subtract
	Divide
	Check your answer