Homework 5. Polynomials.   Class/section_____Name_____ Date _____

	Part 1. Perform the indicated operation. Attach a separate sheet for the problems that you can't fit on this page.		
	Problem	Work	
1	$(2x-3)(3x+2)$		
2	$(x+5)^2$		
3	$(x+2)(x^2-2x+4)$		
4	$(x+y-1)(x-y+1)$		
5	$(2x^3-3x^2-14x+15)\div(x-3)$		
6	$(x^4-81)\div(x-3)$		
7	$(2x^4+3x^3+6x^2+x+6)\div(x^2+2x+3)$		
8	$(2x^4+3x^3+6x^2+x+6)\div(2x^2-x+2)$		
9	$(x^7+1)\div(x+1)$		
10	$(x^2+2x+3)\div(x-1)$		
	In the next section, evaluate EACH polynomial for the value x=3. Then, work each problem using numbers. Problem #1 is done as an example below:		
11	$(2x-3)(3x+2)$.	Evaluate: (2(3)-3)(3(3)+2) = (6-3)(9+2) = 3(11) = 33. Also, evaluate the PRODUCT of (2x-3) (3x-2) with x=3. Are your answers the same?	
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