Name:	НО
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our: _____ Date: ____

Answer the first problem. Circle your answer. Find your answer among the choices. Put #2 in the problem blank. Answer that question and proceed in this manner until finished.

Answer: x^4 - $2x^2y^2 + y^4$ #_____

Answer: $: x \longrightarrow -\infty$, $y \longrightarrow \infty$ and $x \longrightarrow \infty$, $y \longrightarrow \infty$

Name the polynomial

 $3x^3 + 2$

Find the product

 $x(x^3-3)$

Answer:
$$2x^3 - 5x^2 - 2x + 5$$

#____

Answer: up, down

#____

Find the product

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

Describe the end behavior of the polynomial

50x + 10

Answer: down, down #____

Answer: $x^3 - x^2y - y^2x + y^3$ #_____

Using only arrows (not our usual notation) describe the end behavior of the polynomial

 $y = -4x^7 + 8x^4 - 30$

Find the product

(x + y) (x - y) (x + y)(x - y)

Answer: $x^3 - 6x^2 + 9x$

#

Answer: $x^4 + 2x^2 + 1$

#

Find the product

$$(x-y)^2(x+y)$$

Find the product

 $(2x - 5)(x^2 - 1)$

Answer: $x^4 - 3x$ #	Answer: Linear binomial #
Find the product and write in standard form.	Using only arrows (not our usual notation) describe the end behavior of the polynomial
$(x^2 + 1)^2$	$y = -x^4 + 6x + 8$
Answer: $x \rightarrow -\infty$, $y \rightarrow -\infty$ and $x \rightarrow \infty$, $y \rightarrow \infty$ #	Answer: Cubic Binomial #
	Name the polynomial
Describe the end behavior of the polynomial	3 + x
$Y=3x^4$	

 Write the polynomial in sterms. 	standard form then name it based on degree and number of	
24 22 2 45		
$3x^4 + 2x^2 - 3x - 15$		
2. Describe the end behavior of the function using arrows and algebraic notation		
$y = -3x^{99} - 100$		
Arrows:	L:	
	R:	
3. Find the product, classif $5x^4(x^3 + 3x)$	y the resulting polynomial and describe the end behavior.	
4 Find the product classif	fy the resulting polynomial and describe the end behavior.	
T. I ma me product, classif	y the resulting polynomial and describe the end behavior.	
$(x + 4)^2 (x + 3)$		