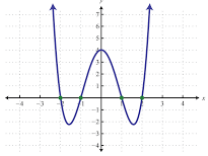
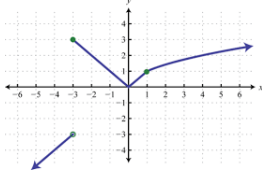
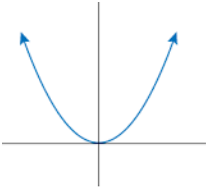
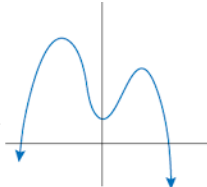
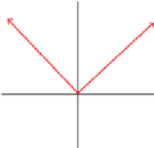
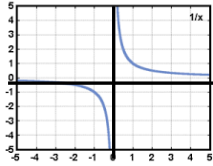


Figure 8.20 Polynomial Concept Attainment

What Is A Polynomial?

These ARE Polynomials		These ARE NOT Polynomials																																																	
																																																			
 		 																																																	
<table border="1" style="display: inline-table; vertical-align: middle;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>-2</td><td>-7</td></tr> <tr><td>-1</td><td>0</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>9</td></tr> </tbody> </table>	x	y	-2	-7	-1	0	0	1	1	2	2	9	<table border="1" style="display: inline-table; vertical-align: middle;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>-2</td><td>2</td></tr> <tr><td>-1</td><td>-1</td></tr> <tr><td>0</td><td>-2</td></tr> <tr><td>1</td><td>-1</td></tr> <tr><td>2</td><td>2</td></tr> </tbody> </table>	x	y	-2	2	-1	-1	0	-2	1	-1	2	2	<table border="1" style="display: inline-table; vertical-align: middle;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>-2</td><td>-5/2</td></tr> <tr><td>-1</td><td>-2</td></tr> <tr><td>0</td><td>und.</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>5/2</td></tr> </tbody> </table>	x	y	-2	-5/2	-1	-2	0	und.	1	2	2	5/2	<table border="1" style="display: inline-table; vertical-align: middle;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>-1</td><td>und.</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>4</td><td>2</td></tr> <tr><td>9</td><td>3</td></tr> </tbody> </table>	x	y	-1	und.	0	0	1	1	4	2	9	3
x	y																																																		
-2	-7																																																		
-1	0																																																		
0	1																																																		
1	2																																																		
2	9																																																		
x	y																																																		
-2	2																																																		
-1	-1																																																		
0	-2																																																		
1	-1																																																		
2	2																																																		
x	y																																																		
-2	-5/2																																																		
-1	-2																																																		
0	und.																																																		
1	2																																																		
2	5/2																																																		
x	y																																																		
-1	und.																																																		
0	0																																																		
1	1																																																		
4	2																																																		
9	3																																																		
$y = x^4 + 2x^3 - 3x^2 - 5x + 7.3$		$y = x^2 + x^{2/3} + 3$																																																	
$y = 2.7x^5$		$y = \frac{x^3 + 2x^2 - x + 1}{x - 2}$																																																	
$y = 5$	$y = \frac{-3}{4}x^{31} + 3x - 1$	$y = \sqrt{x}$	$y = \sqrt[3]{x} + 4$																																																
		$y^2 = x$																																																	

Write 3 sentences that describe what makes a polynomial, a polynomial.

