Figure 8.20 Polynomial Concept Attainment

What Is A Polynomial?

|  |  |
| --- | --- |
| These **ARE** Polynomials | These **ARE NOT** Polynomials |
|    x y x y –2 –7 –2 2 –1 0 –1 –1 0 1 0 –2 1 2 1 –1 2 9 2 2 $$y=x^{4}+2x^{3}-3x^{2}-5x+7.3$$ $y=2.7x^{5}$ $y=5$ $y=\frac{-3}{4}x^{31}+3x-1$  |    x y x y –2 –5/2 –1 und. –1 –2 0 0 0 und. 1 1 1 2 4 2 2 5/2 9 3 $$y=x^{2}+x^{2/3}+3$$$$y=\frac{x^{3}+2x^{2}-x+1}{x-2}$$ $y=\sqrt{x}$ $y=\sqrt[3]{x}+4$$$y^{2}=x$$ |

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