Always, Sometimes, or Never True?

Directions: Read the statement, then circle the appropriate classification of the statement. Include an example that supports your classification, and a non-example if it applies.

Statement	Classification	Example/Counterexample
Cubic means the highest	Always True	
power of x is 3.	Sometimes True	
	Never True	
A quadratic will have	Always True	
two x-intercepts because	Sometimes True	
it makes a U shape.	Never True	
An odd degree will	Always True	
always have an x-	Sometimes True	
intercept.	Never True	
The function y=2x ² -3x+6	Always True	
has two zeros.	Sometimes True	
	Never True	
Polynomials make	Always True	
curved lines when	Sometimes True	
graphed.	Never True	
The leading coefficient	Always True	
determines how steep	Sometimes True	
the curve is.	Never True	
A polynomial must have	Always True	
at least three terms.	Sometimes True	
	Never True	
The number of	Always True	
intercepts depends on	Sometimes True	
the highest degree.	Never True	



The function y=x ⁵ +3x ³ +7 has one real solution.	Always True Sometimes True Never True	
Polynomials with an even degree have the same end behavior.	Always True Sometimes True Never True	
4 th degree polynomial functions look like quadratic functions.	Always True Sometimes True Never True	
Cubic graphs will continuously increase, therefore don't have a minimum or maximum.	Always True Sometimes True Never True	
Polynomials with an odd degree will have opposite end behavior.	Always True Sometimes True Never True	
The number of turning points depends on the highest degree of the function.	Always True Sometimes True Never True	
The constant effects the steepness of the curve.	Always True Sometimes True Never True	

