

Reference 4: Corresponding Features of Graphs and Functions

	feature of graph	↔	feature of function
1	y-intercept at $(0, b)$	↔	
2	x-intercept at $(a, 0)$	↔	
3	height of graph at $x = a$	↔	
4	does graph even have a y-value at $x = a$?	↔	
5	region where graph remains above x-axis	↔	
6	region where graph remains below x-axis	↔	
7	hole in graph at $x = a$	↔	
8	dot in wrong place at $x = a$	↔	
9	jump in graph at $x = a$	↔	
10	vertical asymptote at $x = a$	↔	
11	horizontal asymptote at $y = b$	↔	
12	steepness of graph at $x = a$	↔	
13	max or min in graph at $x = a$	↔	
14	cusp point at $x = a$	↔	
15	concavity of graph at $x = a$	↔	
16	concavity of graph changes at $x = a$	↔	