Mastery Algebra 1 Practice Mastery Quiz 4-3 Name: KEY Per: ☐

4-3 Patterns and Nonlinear Functions

Use the function rule $d(t) = 8 - t^2$ to answer questions 1-4:

1. Find $d(0)$

$d(0) = 8 - (0)^2$
$= 8 - 0 = \boxed{8}$

2. Find $d(-1)$

$d(-1) = 8 - (-1)^2$
$= 8 - 1 = \boxed{7}$

3. Find $d(2)$

$d(2) = 8 - (2)^2$
$= 8 - 4 = \boxed{4}$

4. Find $d(-3)$

$d(-3) = 8 - (-3)^2$
$= 8 - 9 = \boxed{-1}$

5. Graph the function

x	y
-4	-8
-3	-1
-2	4
-1	7
0	8
1	7
2	4
3	-1
4	-8