4. [11 points] Invertible functions q, n, and h are described by the table, formula, and graph below. Use this information to answer the questions that follow.



a. [3 points] Based on the data in the table above, determine which of the following statements could be true about the function q on the entire interval from x = -4 to x = 4. (*Circle ALL such statements or circle* NONE OF THESE.)

q is an increasing function.	q is concave up.
q is a decreasing function.	$\boldsymbol{q}$ is concave down.
q is a linear function.	None of these

- **b**. [5 points] Evaluate each of the following.
  - (i) h(-2) 2q(-4) (ii)  $5q^{-1}(1)$

-	Answer:	
(iii) a	q(q(q(0)))	

	Answer:	
(iv)	$n(h^{-1}(-3))$	

Answer:

Answer: \_\_\_\_\_

c. [3 points] Find a formula for 4n(n(t)). Simplify your answer completely.

**Answer:** 4n(n(t)) = \_\_\_\_\_