

State the relationship shown in the graph.

(1)

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(c) The wild blackberry was introduced to Santa Cruz in 1970 and has since spread over much of the island.

This has resulted in the reduction of the native endemic forest.

In 1960, the number of species in an area of the native forest was measured.

The table shows these results.

Species	Number of individuals (n)	(n - 1)	n(n - 1)
A	21	20	
B	2	1	2
C	4	3	12
D	13	12	
E	54	53	
F	15	14	210
G	6	5	30
H	32	31	
	Total (N) =		$\Sigma n(n - 1) =$

(i) Calculate the index of diversity (D) for this area of the forest using the formula

$$D = \frac{N(N - 1)}{\Sigma n(n - 1)}$$

Use the table to help you.

Give your answer to **one** decimal place.

(3)

Answer