

Answer on Question #51815, Math, Trigonometry

Question: Without using tables, find the value of $2\sin 300$

A 5

B 4

C 3

D 2

Answer:

Since $\sin(2\pi - \alpha) = -\sin \alpha$, so

$$2\sin 300 = 2\sin(360 - 60) = -2\sin 60 = -2 \cdot \frac{\sqrt{3}}{2} = -\sqrt{3}$$

The answers given in the question's stem are incorrect.