

**Answer on Question #41265 – Physics - Other**

Let's determine the value of sine  $S$  to the nearest thousandth:

$$S = \sin 300^\circ \approx -0.866$$

Then the value of sine  $S'$ :

$$S' = \sin(300 + 5)^\circ \approx -0.819$$

After that we can determine the error:

$$|S' - S| = |-0.819 - (-0.866)| = 0.047$$

**Answer:** the error in the measurement of sine  $\approx 0.047$ .

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