**11L Integration as the Limit of a Sum**

1. The diagram shows a sketch of the curve with equation $y=\sin(x)$.

The area under the curve between $x=1$ and $x=2$ can be thought of as a thin series of strips of height $y$ and width $δx.$

Calculate$\lim\_{δx\to 0}\sum\_{x=1}^{2}\sin(x) δx$, giving your answer correct to 4 significant figures.

