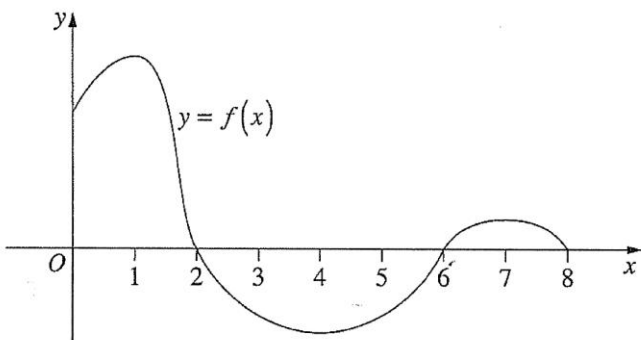


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<b>12</b>	<b>10</b>	<p>The graph of <math>y = f(x)</math> has been drawn to scale for <math>0 \leq x \leq 8</math>. Which of the following integrals has the greatest value?</p> <p>(A) <math>\int_0^1 f(x) \, dx</math>      (B) <math>\int_0^2 f(x) \, dx</math></p> <p>(C) <math>\int_0^7 f(x) \, dx</math>      (D) <math>\int_0^8 f(x) \, dx</math></p>		<b>1</b>
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**B**

State Mean:

**0.72**

As  $\int_2^6 f(x) \, dx < 0$  and

$$\int_6^8 f(x) \, dx < \left| \int_2^6 f(x) \, dx \right|,$$

then greatest value is  $\int_0^2 f(x) \, dx$ .

\* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by the Board of Studies