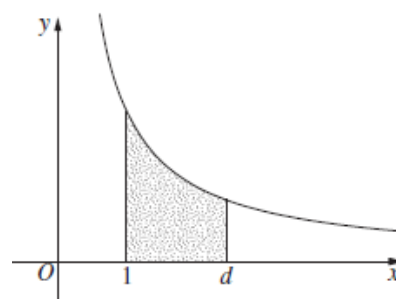




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- 2015 10** The diagram shows the area under the curve  $y = \frac{2}{x}$  from  $x = 1$  to  $x = d$ . What value of  $d$  makes the shaded area equal to 2?

- (A)  $e$  (B)  $e + 1$   
(C)  $2e$  (D)  $e^3$



1

A

$$\int_1^d \frac{2}{x} dx = 2$$

$$2 \int_1^d \frac{1}{x} dx = 2$$

$$\int_1^d \frac{1}{x} dx = 1$$

$$\log_e d - \log_e 1 = 1$$

$$\log_e d = 1$$

$$d = e$$

State Mean:  
**0.65**

\* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.