

Question #266

Answer: B

$$G = \int_0^5 \frac{1}{30} \frac{t}{25} dt = \frac{t^2}{30(25)(2)} \Big|_0^5 = \frac{1}{60}$$

$$H = {}_5P_{80:85} - {}_{10}P_{80:85} = \frac{25}{30} \frac{20}{25} - \frac{20}{30} \frac{15}{25} = \frac{200}{750} = \frac{4}{15}$$

$$G + H = \frac{1}{60} + \frac{16}{60} = \frac{17}{60} = 0.2833$$