27th March

Given

\[ f(x) = x + 3 \]
\[ g(x) = x^2 \]

find

\[ gf(x) \]

Calculate an estimate of the gradient of the curve at the \( x = 3 \)

Find an estimate of the area between the curve and the x-axis between \( x = 0 \) and \( x = 5 \)

Find an estimate of the median

Two sunflowers are selected at random. Calculate the probability that both sunflowers have a height greater than 2m.