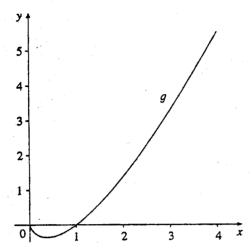
Group Work 1, Section 2.8 Tangent Lines and the Derivative Function

The following is a graph of $g(x) = x \ln x$.



It is a fact that the derivative of this function is $g'(x) = \ln x + 1$.

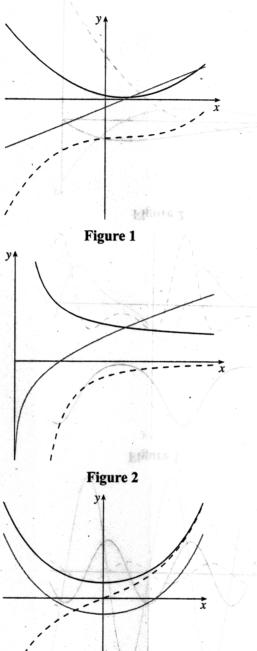
1. Sketch the line tangent to g(x) at $x = e \approx 2.718$ on the graph above. Find an equation of the tangent line at x = e.

3. Now sketch the line tangent to g(x) at $x = \frac{1}{e} \approx 0.368$.

4. Find an equation of the tangent line at $x = \frac{1}{e}$.

Group Work 4, Section 2.8 Sorting Them Out (Version A)

Each figure below shows the graphs of a function, its first derivative, and its second derivative. Identify which is which.

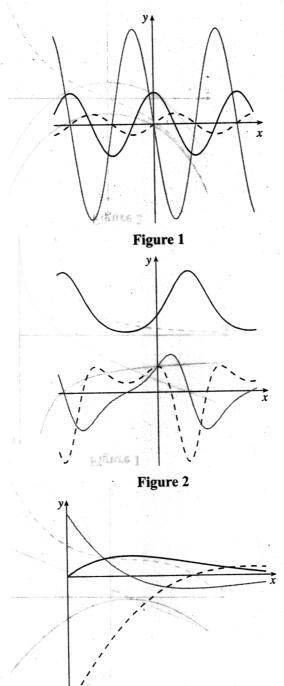


is which.

Each figure below shows the graphs of a finglian atts first derivative, and its second derivative. Identify which

Group Work 4, Section 2.8 Sorting Them Out (Version B)

Each figure below shows the graphs of a function, its first derivative, and its second derivative. Identify which is which.



is which.

Each figure below shows the graphs of a function, as first define 3, and its second derivative. Identify which

Group Work 4, Section 2.8 Sorting Them Out (Version A)