| Topic/Skill | Definition/Tips | Example |
| :---: | :---: | :---: |
| 1. Area Under a Curve | To find the area under a curve, split it up into simpler shapes - such as rectangles, triangles and trapeziums - that approximate the area. |  |
| 2. Tangent to a Curve | A straight line that touches a curve at exactly one point. |  |
| 3. Gradient of a Curve | The gradient of a curve at a point is the same as the gradient of the tangent at that point. <br> 1. Draw a tangent carefully at the point. <br> 2. Make a right-angled triangle. <br> 3. Use the measurements on the axes to calculate the rise and run (change in $y$ and change in x ) <br> 4. Calculate the gradient. |  $\begin{gathered} \text { Gradient }=\frac{\text { Change in } y}{\text { Change in } x} \\ =\frac{16}{2}=8 \end{gathered}$ |



