

3. Two sides of a triangle are 4 m and 5 m in length and the angle between them is increasing at rate of 0.06 rad/s. Find the rate at which the area of the triangle is increasing when the angle between the sides of fixed length is $\frac{\pi}{3}$

4. Calculate $\frac{d}{dx} \left[2x \sinh^{-1}(3x) - \frac{2}{3} \sqrt{1 + 9x^2} \right]$