**P4.1-5)** A wind turbine motor applies a torque to the initially stationary blade assembly causing it to increase its angular speed as  $\omega = bt$  rad/s, where b = 0.3 rad/s<sup>2</sup>. Determine the velocity and acceleration of the blade tip (point A) after the blade assembly has made 5 full rotations. The length of one blade is L = 30 m.Given: Find: Solution: Velocity **Angular Acceleration** Determine the angular acceleration of the What is the velocity of the blade tip after 5 blade assembly. rotations? Angular velocity Calculate the blade's angular speed after 5 Acceleration rotations. What is the acceleration of the blade tip after 5 rotations?