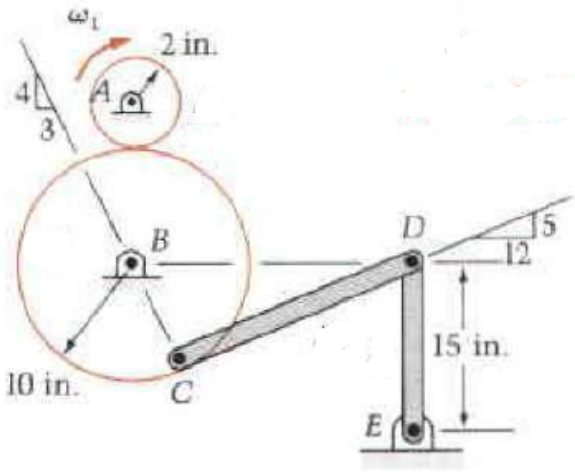
1) Wheel A has a constant angular velocity of $\omega_1 = 100\ rad/s$ clockwise. It is in rolling contact with wheel B without slipping, which means the contacting points have the same velocity. Find the angular velocity and angular acceleration of bar DE at this instant.
Clearly label your coordinate system.



25 marks