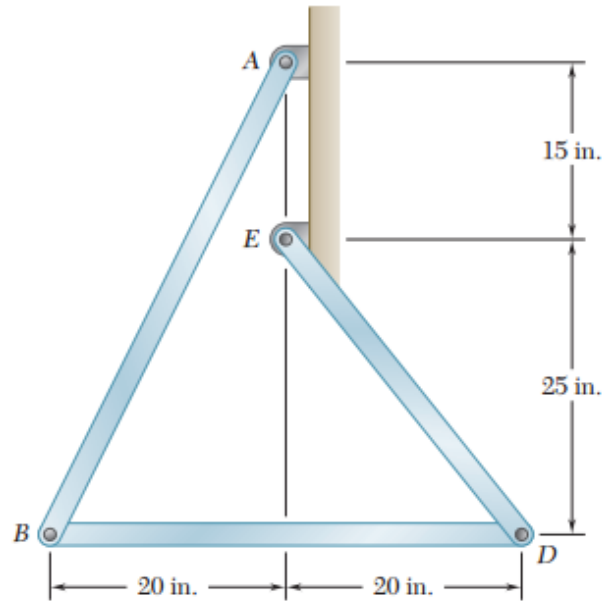1) Knowing that at the instant shown bar AB has an angular velocity of 4 rad/s and an angular acceleration of 2 rad/s^2, both clockwise, determine the angular acceleration of bar BD (α_{BD}), and the angular aceleration of bar DE (α_{DE}).

40 marks