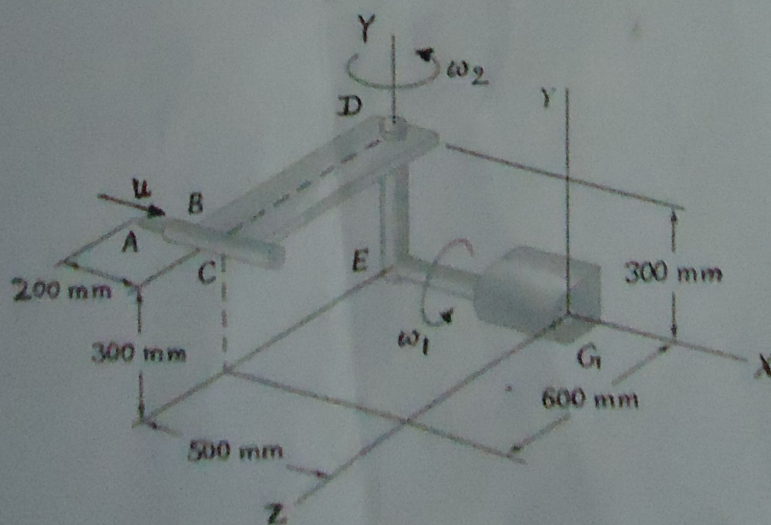


Maximum Points: 100

- Length (BD) = b.





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- A diagram showing a slider block on a horizontal guide. Two pulleys, each with a radius of  $0.5\text{ m}$ , are positioned on the guide. A cable is fixed to the left pulley at point A, passes over it, then under the right pulley at point B, and is fixed to the slider block at point C. The horizontal distance between the centers of the pulleys is  $1.3\text{ m}$ . The vertical distance from the horizontal guide to the center of the left pulley is  $0.5\text{ m}$ . The vertical distance from the horizontal guide to the center of the right pulley is  $0.3\text{ m}$ . The slider block is shown at the bottom, with a vertical arrow indicating its displacement.

C: Center of cylinder