Problem 11.40

Two lightweight rods 24 cm in length are mounted perpendicular to an axle and at 180 ° to each other. At the end of each rod is a 480-g mass. The rods are spaced 42 cm apart along the axle. The axle rotates at 4.7 rad/s . (Figure 1)

Part A

What is the component of the total angular momentum alo

Express your answer using two significant figures.

$L_{\text{along axle}} =$

Submit　　　　　　　My Answers　Give Up

Part B

What angle does the vector angular momentum make with momentum must be calculated about the *same point* for b

Express your answer using two significant figures.

$\theta =$

Submit　　　　　　　My Answers　Give Up

Figure 1　▼　of 1

480 g

24 cm

42 cm

480 g