

A bar with uniform mass is supported by a pin connection at point A and a cable at point B. Identify the forces needed for the FBD.

What is the horizontal distance between support A and the bar's centre of gravity?

$$d_{center} = \frac{d_1 + d_2}{2}$$

Which of the following components are unknown?

 $A_x$ 

 $A_{y}$ 

 $F_B$ 

What is the smallest angle between the line of action of the force applied by the cable and the horizontal axis?

$$\theta = \arctan\left(\frac{3}{4}\right)$$

Which of the following unknowns h	nave limitations in its range (	Fx_vector cannot be inverted)?
William of the following antimowns in	iave infinations in its range (	(EX. Vector carmor be inverted):

 $F_B$