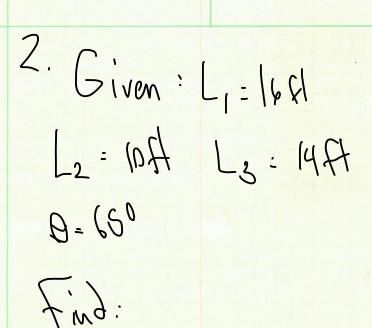
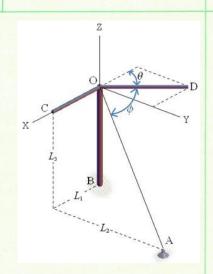
5/5/21 ME 201 HO 23 Seth Howard

1. Given:

$$f = 250 \text{ N}$$
 $A_{y} = 7 \text{ m}$
 $A_{y} = 15 \text{ m}$
 $A_{y} = 10 \text{ m}$
 A_{y



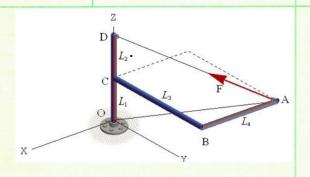


To start things off, we do not have a length for OD, but we can come up with our own imaginary length of the components of OD because the angle will always be the same regardless of the components. Just as long as the angle is maintainted

$$A = 2 | 6, 10, -147$$

$$D = 2 - 1, 2 \cdot 14, 0 > \frac{16 | -1 + (10 \cdot 2 \cdot 14) + -14 \cdot (9)}{(16^2 + 10^2 + -14^2) - 1^2 + 2 \cdot 14^2}$$

$$\Phi = 84.379$$



Solution:

$$A = (-2, 4, 1)$$

 $A = (-2, 4, 1)$
 $A = (-2, 4, 1)$

$$V_{AD} = \frac{V_{AD}}{V_{AD}} = \frac{\langle 2, -4, -1 \rangle}{\sqrt{Z^2 + 4^2 + -1^2}} = \langle .436, -.872, -.218 \rangle$$