A 2 kg vookie tin is accelerated at 3 m 5 2 in the direction shown by a. over a frictionless horisontal surface. The acceleration is caused by three horizontal forces, only 2 of which are shown: F, of magnitude 10 N and Fz of magnitude F1cos(30)  $F_{1} = \frac{1}{50}$   $F_{1} = \frac{1}{50}$   $F_{3x}$   $F_{1} = \frac{1}{50}$   $F_{3x}$ Fisingo. let's assume  $F_3 = F_3 = \widehat{f_3} + \widehat{f_3}$ QUESTION: FIND THE THIRD FORCE,  $\widehat{f_3}$ Applying N-2 law: x: Fuet, x = manet, x  $F_{3x} - F_{1} \cos 30' = m a \cos 50'$ Fret,y= manet,y F2 + F3y -F, 8in30' = m a 8in50' F3y = \\_ N F3 = F3x2 + F3yg