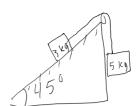
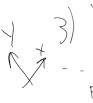
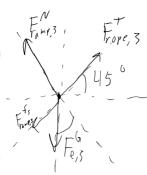
A 3 kg block is resting on a 45 degree ramp with friction. It is connected by a massless rope, over the top of a ramp to a 5 kg block. It is found if the 5 kg block is made any more massive the 3 kg block will start to move. What is the coefficient of static friction?







$$\begin{array}{c}
5) & \overline{F}, 5 \\
\hline
\end{array}$$

$$\begin{array}{c}
m_5 & 9
\end{array}$$

$$\begin{cases}
F_{7,5} = m_5 a y_5 \\
F_{7,5} + m_5 g = m_5 a y_5
\end{cases}$$

$$[F_{7,5} + m_5 g = F_{7,5} + F_{7,5}]$$

$$[F_{7,5} + F_{7,5}] = [F_{7,5} + F_{7,5}]$$

$$-M_{s} m_{3} g (os \theta = m_{3} g sin \theta - m_{5} g$$

$$-M_{s} m_{3} g (os \theta = m_{3} g sin \theta - m_{5} g = 1,36$$

$$-m_{3} g (os \theta = m_{5} g = 1,36$$