A 1 kg box is being dragged by a 7 N force across a surface where the coefficient of kinetic of 0.3 . What is the box's acceleration?



$$\sum F_{x} = max$$

$$-F^{f_{K}} + F^{aPP} = max$$

$$F^{f_{K}} - M_{K}F^{N}$$

$$-M_{S}F^{N} + F^{aPP} = max$$

$$-M_{S}(mg) + F^{aPP} = max$$

$$-M_{S}mg + F^{aPP} = ax$$

$$-\frac{0.3 \cdot 1 \cdot 9.8 + 7}{m} = 4,06 \frac{m}{5^{2}} = ax$$

 $F^{5_{K}} \xrightarrow{F}^{6_{K}} F^{6_{K}}$

