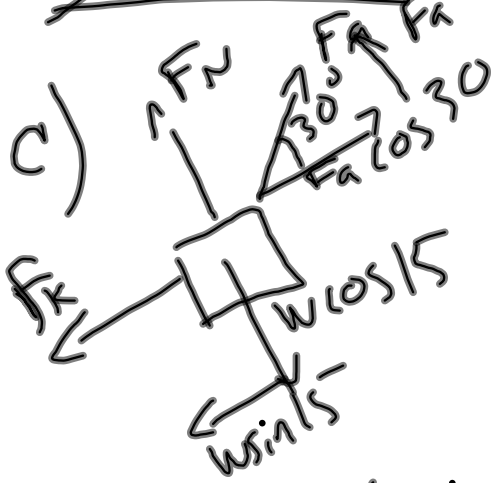
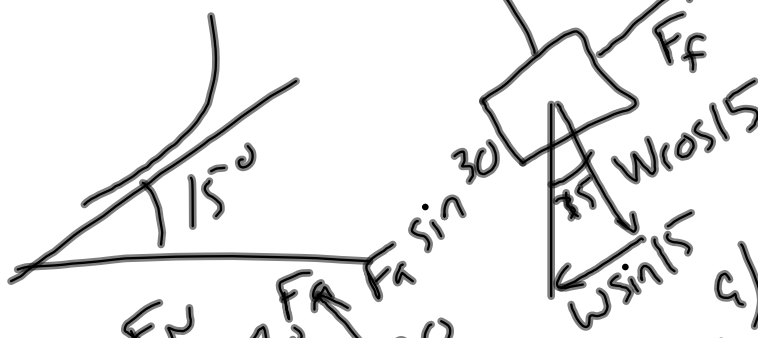


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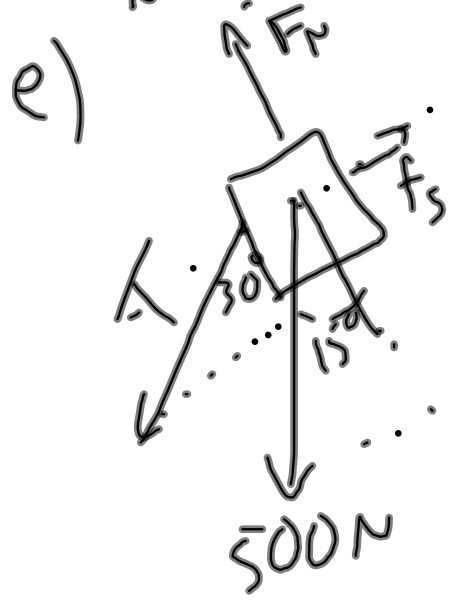
$W = 200\text{ N}$   
 $\theta = 15^\circ$

$F_f = f_s$   
 $\mu_s = .5$



$F_N - 200 \cos 15 = 0$   
 a)  $F_N = 200 \cos 15$   
 b)  $W \sin 15 - F_f = 0$   
 $f_s = 200 \sin 15$

$F_A \cos 30 - W \sin 15 - \frac{f_k}{\mu_k F_N} = 0$  } Solve for  $\mu_k$   
 $F_N + F_A \sin 30 - W \cos 15 = 0$



Solve for  $F_N + f_s$

$F_N - 500 \cos 15 - 100 \cos 30 = 0$   
 $f_s - 500 \sin 15 - 100 \sin 30 = 0$

$F_{Tot} = \sqrt{F_A^2 + f_s^2}$

