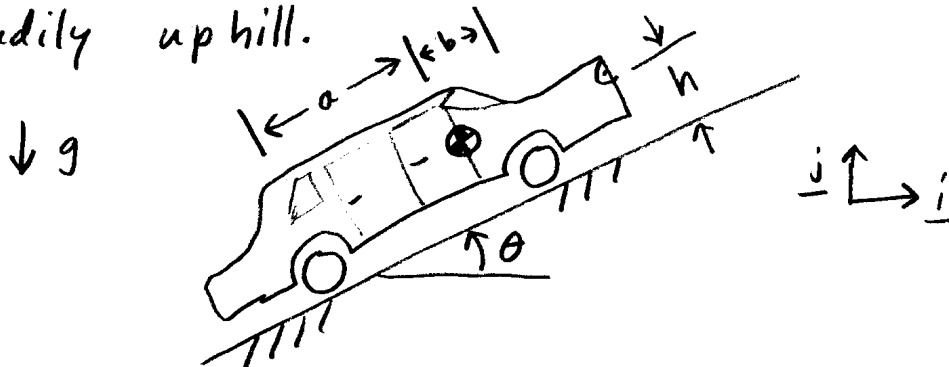


TAM 202, H.W.4 due Feb. 20, 2001

Follow the usual directions on the course WWW page

1) 4.23

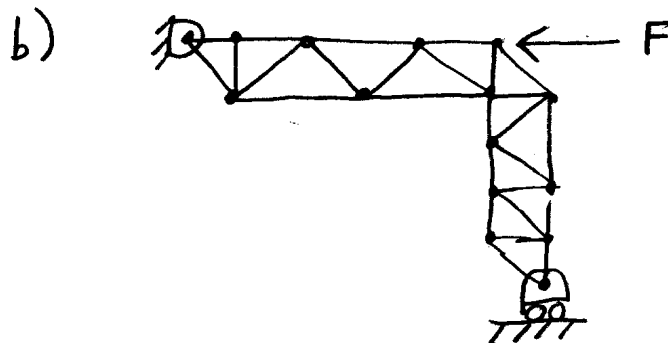
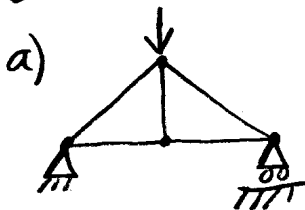
2) Find the minimum coeff. of friction μ for a front wheel drive car to drive steadily uphill.



Answer in terms of some or all of a, b, h, m, g & θ .

3) 4.25

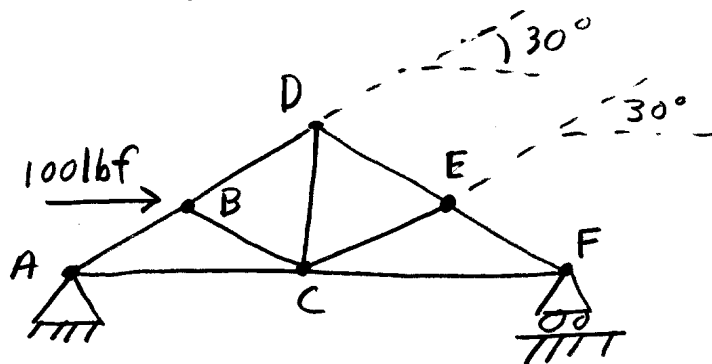
4) Find the zero-force members in these trusses



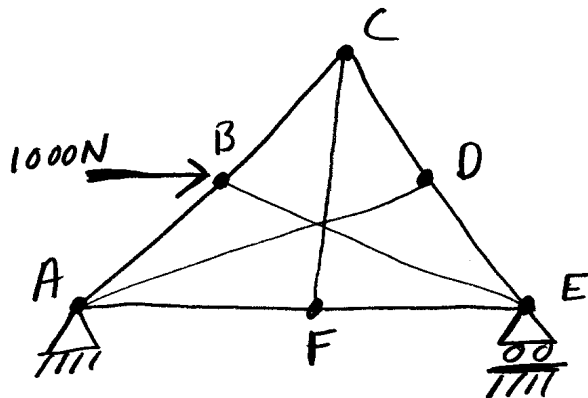
(2)

(TAM 202 H.W.4 due 2/20/01 cont'd)

5) Find all the bar forces in the truss shown.



6) Extra credit challenge = 1 full week's homework
Equilateral triangle. 6 bars around outside,
3 across the middle (not touching in middle).



Find the tension in bar AB.