

# Download File PDF Practice 6 3 Answers

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

2-D EQUIL PRACTICE PROBLEM

100 lb wagon on a  $20^\circ$  slope.  
Find  $N_A$ ,  $N_B$  and  $F$  necessary for equilibrium.

Illustrates the value of using rotated axes.

$$\sum F_x = 0; \quad F \cos 15 - 100 \sin 20 = 0$$
$$\boxed{F = 35.4 \text{ lb} \rightarrow}$$
$$\sum M_B = 0; \quad 34.2(4) + F \sin 15(30) + N_B(20) - 94(10) = 0$$
$$\boxed{N_B = 23.0 \text{ lb} \uparrow}$$
$$\sum F_y = 0; \quad N_A + N_B - 94 + F \sin 15 = 0$$
$$\boxed{N_A = 61.8 \text{ lb} \uparrow}$$

---

Check:  $\sum M_A = 0$  ?  $F(\sin 15(20) + \cos 15(4)) + N_B(10) - N_A(10) \stackrel{?}{=} 0$

$$\underset{398.4}{398.4} + \underset{230}{230} - \underset{618}{618} \stackrel{?}{=} 0 \quad \checkmark$$

[Download PDF version of : Practice 6 3 Answers](#)