

# TOWER CIVIL ENGINEERING REVIEW CENTER

## STATICS 1

### Components and Resultant

**Situation 1** The vertical force  $F$  acts downward at  $A$  on the two membered frame. Set  $F = 500$  N.



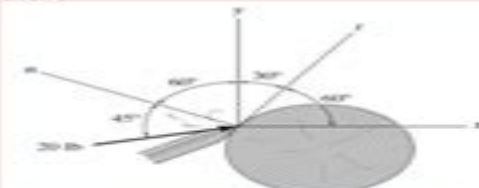
- Determine the magnitude of the component of  $F$  directed along the axis of  $AB$ .  
a. 366 N  
b. 426 N  
c. 448 N  
d. 636 N
- Determine the magnitude of the component of  $F$  directed along the axis of  $AC$ .  
a. 366 N  
b. 426 N  
c. 448 N  
d. 636 N

**Situation 2** The force acting on the gear tooth is  $F = 20$  lb.



- Determine the component force acting along the line  $aa$ .  
a. 24.6 lb  
b. 26.9 lb  
c. 30.6 lb  
d. 34.9 lb
- Determine the component force acting along the line  $bb$ .  
a. 24.6 lb  
b. 26.9 lb  
c. 30.6 lb  
d. 34.9 lb

**Situation 3** The drill exerts a force of 20 lb on the wood dowel rod which is turning in a lathe. Resolve the force into components along  $n$  and  $y$  axes and along  $x$  and  $z$  axes.



- Determine the magnitude of component force along  $n$  axis.  
a. 5.28 lb  
b. 10.28 lb  
c. 16.30 lb  
d. 22.30 lb
- Determine the magnitude of component force along  $t$  axis.  
a. 5.28 lb  
b. 10.28 lb  
c. 16.30 lb  
d. 22.30 lb

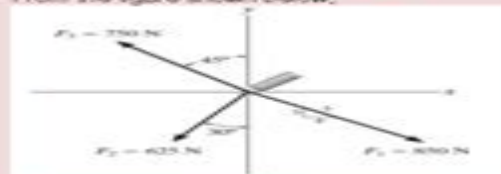
**Situation 4** The 500-lb force acting on the frame is to be resolved into two components acting along the axis of the struts  $AB$  and  $AC$ . The component of force along  $AC$  is required to be 300 lb, directed from  $A$  to  $C$ .



- Determine the magnitude of force acting along  $AB$ .  
a. 675 lb  
b. 744 lb  
c. 565 lb  
d. 774 lb

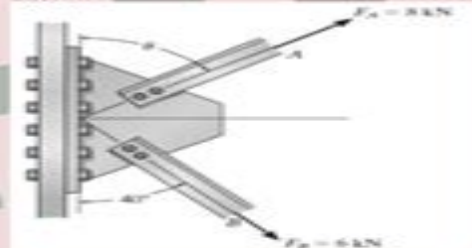
- Determine the angle  $\theta$  of the 500-lb force.  
a. 44.1°  
b. 51.2°  
c. 27.8°  
d. 24.6°

**Situation 5** From the figure shown below.



- Determine the magnitude of the resultant force  $F_R$ .  
a. 325.67 N  
b. 545.73 N  
c. 986.75 N  
d. 1113.65 N
- Determine the direction of the resultant force measured counter clockwise from the positive  $x$  axis.  
a. 353°  
b. 265°  
c. 289°  
d. 292°
- Determine the magnitude of the resultant force  $F_R = F_1 + F_2$ .  
a. 325.67 N  
b. 545.73 N  
c. 986.75 N  
d. 1113.65 N
- Determine the direction of the resultant force  $F_R = F_1 + F_2$  measured counter clockwise from the positive  $x$  axis.  
a. 263°  
b. 265°  
c. 289°  
d. 292°

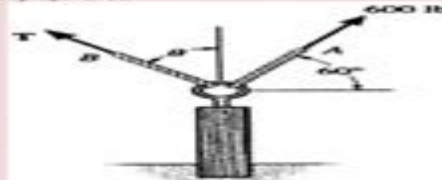
**Situation 6** The plate is subjected to the two forces at  $A$  and  $B$  as shown.



- Determine the  $\theta$  for connecting member  $A$  to the plate so that the resultant force  $F_A$  and  $F_B$  is directed horizontally to the right.  
a. 54.9°  
b. 34.9°  
c. 45.9°  
d. 40.9°
- Also, what is the magnitude of the resultant force?  
a. 10.4 kN  
b. 6.8 kN  
c. 14.1 kN  
d. 8.6 kN

**Situation 7**

The post is to be pulled out of the ground using two ropes  $A$  and  $B$ . Rope  $A$  is subjected to a force of 600 lb and is directed at 60° from the horizontal. The resultant force acting on the post is to be 1200 lb, vertically upward.



- Determine the force  $T$  in rope  $B$ .  
a. 474 lb  
b. 744 lb  
c. 774 lb  
d. 447 lb
- Determine the corresponding angle  $\theta$ .  
a. 32.8°  
b. 23.8°  
c. 62.3°  
d. 28.3°

**Situation 8** The log is being towed by two tractors  $A$  and  $B$ . Set  $\theta = 15^\circ$ .

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**JL Elias**



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