

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.



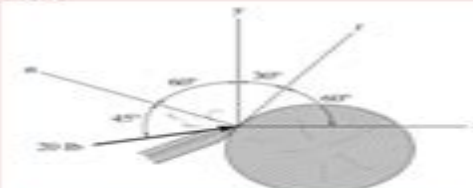
- Determine the magnitude of the component of F directed along the axis of AB .
a. 366 N
b. 426 N
c. 448 N
d. 636 N
- Determine the magnitude of the component of F directed along the axis of AC .
a. 366 N
b. 426 N
c. 448 N
d. 636 N

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



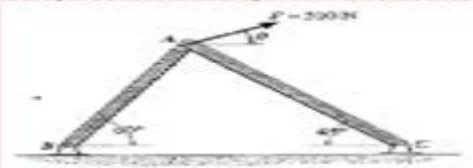
- Determine the component force acting along the line aa .
a. 24.6 lb
b. 26.9 lb
c. 30.6 lb
d. 34.9 lb
- Determine the component force acting along the line bb .
a. 24.6 lb
b. 26.9 lb
c. 30.6 lb
d. 34.9 lb

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 y axis.
a. 5.28 lb
b. 10.28 lb
c. 16.30 lb
d. 22.30 lb

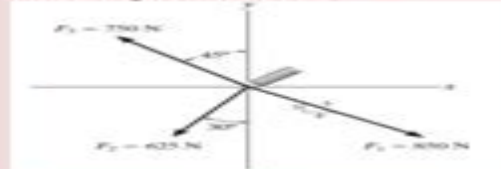
Situation 4 The 500-lb force acting on the frame is to be resolved into two components acting along the axis of the struts AB and AC . The component of force along AC is required to be 300 lb, directed from A to C .



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

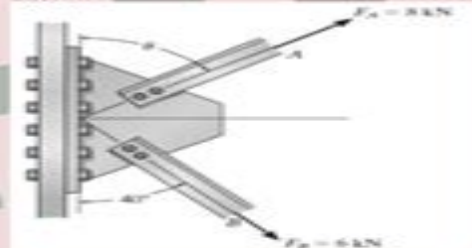
- Determine the angle θ of the 500-lb force.
a. 44.1°
b. 51.2°
c. 27.8°
d. 24.6°

Situation 5 From the figure shown below.



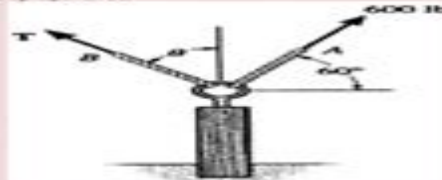
- Determine the magnitude of the resultant force F_R .
a. 325.67 N
b. 545.73 N
c. 986.75 N
d. 1113.65 N
- Determine the direction of the resultant force measured counter clockwise from the positive x axis.
a. 353°
b. 265°
c. 289°
d. 292°
- Determine the magnitude of the resultant force $F_R = F_1 + F_2$.
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 θ for connecting member A to the plate so that the resultant force F_R 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 θ .
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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