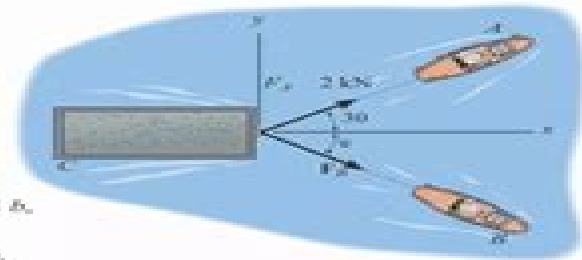


2-21.

If the resultant force of the two tugboats is 3 kN, directed along the positive  $x$  axis, determine the required magnitude of force  $F_B$  and its direction  $u$ .  
If the resultant force of the two tugboats is 3 kN, directed along the positive  $x$  axis, determine the required magnitude of force  $F_B$  and its direction  $u$ .



## SOLUTION

The parallelogram law of addition and the triangular rule are shown in Figs.  $a$  and  $b$ .

The parallelogram law of addition and the triangular rule are shown in Figs.  $a$  and  $b$ , respectively.

Applying the law of cosines to Fig.  $b$ :

$$F_R^2 = 2^2 + 3^2 - 2(2)(3)\cos 30^\circ$$

Ans.

$$F_R = 1.615 \text{ kN} = 1.61 \text{ kN}$$

Ans.

Using this result and applying the law of sines to Fig.  $b$  yields:

$$\frac{\sin u}{2} = \frac{\sin 30^\circ}{1.615}$$

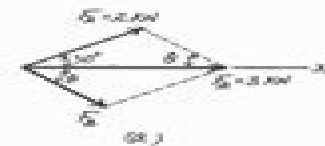
Using this result and applying the law of sines to Fig.  $b$  yields:

$$\frac{\sin u}{2} = \frac{\sin 30^\circ}{1.615}$$

Ans.

$$\sin u = \frac{2 \sin 30^\circ}{1.615} \quad u = 38.3^\circ$$

Ans.



# Mechanics For Engineers Statics 5th Edition Problem 2 45

**Rosina Ehmann**



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