

### PROBLEM 2.21

Determine the  $x$  and  $y$  components of each of the forces shown.

### SOLUTION

Compute the following distances:

$$OA = \sqrt{(84)^2 + (80)^2} \\ = 116 \text{ in.}$$

$$OB = \sqrt{(28)^2 + (96)^2} \\ = 100 \text{ in.}$$

$$OC = \sqrt{(48)^2 + (90)^2} \\ = 102 \text{ in.}$$

29-lb Force:

$$F_x = +(29 \text{ lb}) \frac{84}{116}$$

$$F_y = +(29 \text{ lb}) \frac{80}{116}$$

50-lb Force:

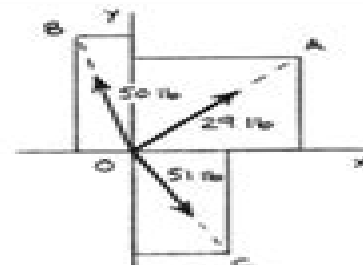
$$F_x = -(50 \text{ lb}) \frac{28}{100}$$

$$F_y = +(50 \text{ lb}) \frac{96}{100}$$

51-lb Force:

$$F_x = +(51 \text{ lb}) \frac{48}{102}$$

$$F_y = -(51 \text{ lb}) \frac{90}{102}$$



$$F_x = +21.0 \text{ lb} \quad \blacktriangleleft$$

$$F_y = +20.0 \text{ lb} \quad \blacktriangleleft$$

$$F_x = -14.00 \text{ lb} \quad \blacktriangleleft$$

$$F_y = +48.0 \text{ lb} \quad \blacktriangleleft$$

$$F_x = +24.0 \text{ lb} \quad \blacktriangleleft$$

$$F_y = -45.0 \text{ lb} \quad \blacktriangleleft$$

# Beer Johnston Statics Solution Manual 7th Edition

**CO Houle**



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