

PROBLEM 2.21

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

SOLUTION		8 Y
Compute the following	distances:	`[\^
	$OA = \sqrt{(84)^2 + (80)^2}$	50 16
	=116 in.	29.16
	$OB = \sqrt{(28)^2 + (96)^2}$	0 \51 no ×
	= 100 in.	7
	$OC = \sqrt{(48)^2 + (90)^2}$	
	= 102 in.	c
29-lb Force:	$F_x = +(29 \text{ lb})\frac{84}{116}$	$F_x = +21.0$ lb \blacktriangleleft
	$F_y = +(29 \text{ lb})\frac{80}{116}$	$F_y = +20.0$ lb \blacktriangleleft
50-lb Force:	$F_s = -(50 \text{ lb}) \frac{28}{100}$	$F_x = -14.00 \text{ lb} \blacktriangleleft$
	$F_g = +(50 \text{ lb}) \frac{96}{100}$	$F_{p}=+48.0~\mathrm{lb}$
51-lb Force:	$F_{\rm a} = +(51 \text{ lb}) \frac{48}{102}$	$F_s = +24.0$ lb
	$F_g = -(51 \text{ lb})\frac{90}{102}$	F _y = −45.0 lb ◀

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