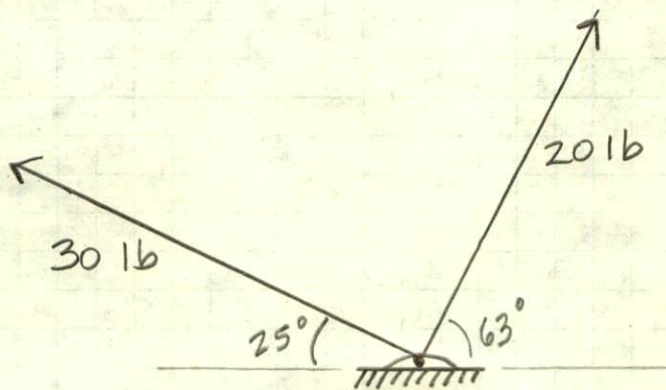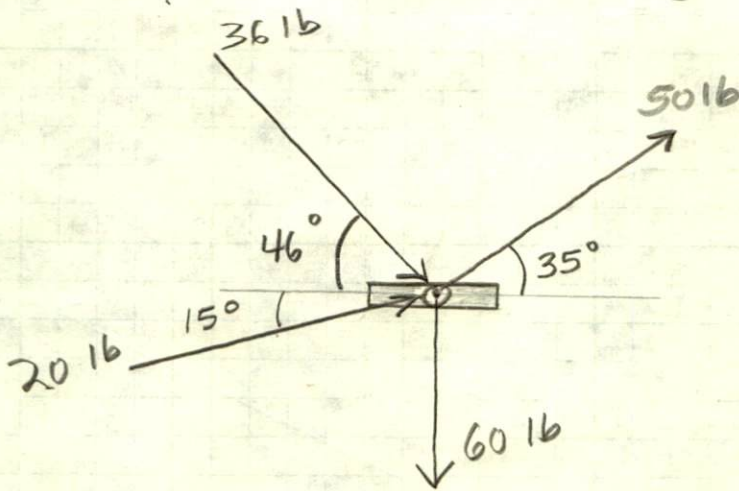Show all work for full credit. All angles are to be measured ccw from the + x-axis. All Vectors are to be positive scalar, True direction.

Name_____

Show all work for full credit. All angles are to be measured ccw from the + x-axis. All vectors are to be positive scalar, True direction.

1. Determine the resultant of the two-forces acting on the clip using _trigonometry_ (parallelogram Law or Triangle Rule)

2. Determine the resultant of the forces acting on the
   bracket by completing the following

36 lb

50 lb

46°

35°

15°

20 lb

60 lb

Force	Dir (θ)	$F_x = F \cos \theta$	$F_y = F \sin \theta$
		$\Sigma F_x =$	$\Sigma F_y =$

magnitude

$R_x = \Sigma F_x =$ _____

$R_y = \Sigma F_y =$ _____

$\}$ Resultant
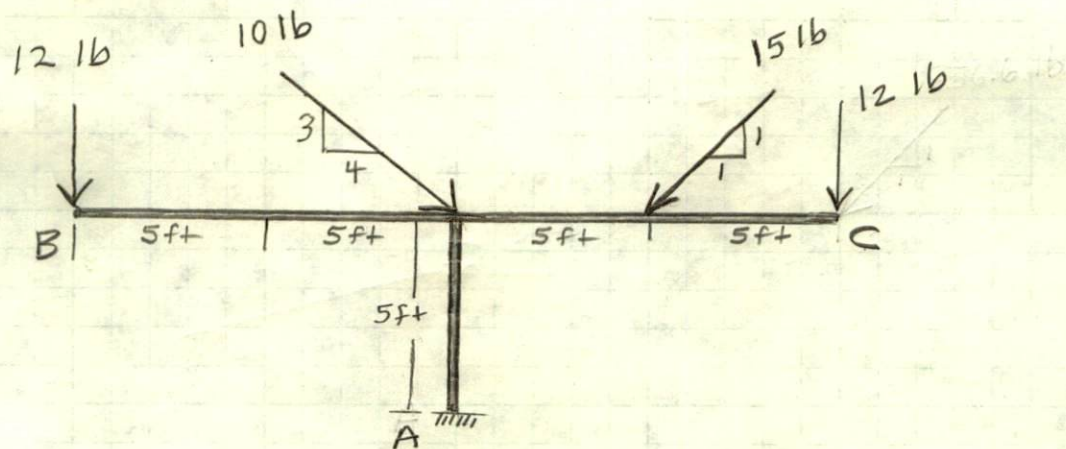lies in
Quad _____

$R =$ _____

Direction

$\alpha =$ _____

$\theta =$ _____

ANS. _____

3. Determine the moment due to the forces acting on the bracket as shown below:

A. $M_B =$

B. $M_A =$

C. $M_C =$

4. Determine the magnitude, direction, and location of the resultant force for the force system shown wrt pt A.