Balancing Forces WS

Name	Period	
With each of the following pairs of forces, calculate the force needed to end up with a net force of zet . With the calculation give the magnitude and direction of the balancing force. Include the Free Body Diagram of the two given forces and the balancing force.		
1. 10.3 N @ 10.0° S of E 5.40 N @ 20.0° W of N		
Calculated Magnitude	Calculated Direction	
2. 10.3 N @ 30.0° W of S 5.40 N @ 40.0° N of W		
Calculated Magnitude	Calculated Direction	

3.	5.40 N @ 50.0° N of E 10.3 N @ 60.0° W of N	
Calc	ulated Magnitude	Calculated Direction
4.	5.40 N @ 70.0° S of E 10.3 N @ 80.0° W of N	
5.	ulated Magnitude 10.3 N @ 10.0° N of E 5.40 N @ 20.0° E of N	Calculated Direction
Calc	ulated Magnitude	Calculated Direction

6.	10.3 N @ South 5.40 N @ 40.0° S of E	
Calc	ulated Magnitude	Calculated Direction
7.	5.40 N @ North 10.3 N @ 60.0° S of E	
Calc	ulated Magnitude	Calculated Direction
8.	5.40 N @ 70.0° W of N 10.3 N @ 80.0° S of E	
Calc	ulated Magnitude	Calculated Direction