Assignment B

1. A force of 1.4 N is acting at an angle of 45° north of east. What is the horizontal component of this force?

2. A force of 2.5 N is acting at an angle of 30° south of west. What is the vertical component of this force?

3. A force of 3.0 N is acting at an angle of 60° north of west. What is the resultant force?

4. A force of 4.0 N is acting at an angle of 90° south of east. What is the magnitude of the resultant force?

5. A force of 5.0 N is acting at an angle of 120° north of west. What is the direction of the resultant force?

6. A force of 6.0 N is acting at an angle of 150° south of east. What is the magnitude of the resultant force?

7. A force of 7.0 N is acting at an angle of 180° north of west. What is the direction of the resultant force?

8. A force of 8.0 N is acting at an angle of 210° south of east. What is the magnitude of the resultant force?

9. A force of 9.0 N is acting at an angle of 240° north of west. What is the direction of the resultant force?

10. A force of 10.0 N is acting at an angle of 270° south of east. What is the magnitude of the resultant force?

11. A force of 11.0 N is acting at an angle of 300° north of west. What is the direction of the resultant force?

12. A force of 12.0 N is acting at an angle of 330° south of east. What is the magnitude of the resultant force?

13. A force of 13.0 N is acting at an angle of 360° north of west. What is the direction of the resultant force?

14. A force of 14.0 N is acting at an angle of 0° south of east. What is the magnitude of the resultant force?