**Vectors Using Pythagorean and The Law of Cosine I**

1. **If an object traveling 160 m/s at 0 degrees collided with another going 90 m/s at 90 degrees, what is the resultant?**
2. **If an object traveling 6 m/s at 25 degrees collided with another going 9 m/s at 80 degrees, what is the resultant?**
3. **If an object traveling 35 m/s at 45 degrees collided with another going 39 m/s at 150 degrees, what is the resultant?**