**Unit 4 Vector Additions**

**(VI)**

1. **If a car traveling 10 m/s at 0 degrees collided with another car traveling 9.5 m/s at 90 degrees, what is the resultant?(use Pythagorean)**
2. **If a person was running 1.5 m/s at 27 degrees ran into another person running 15.7 m/s at 190 degrees, what is the resultant?(Use Law of Cosine)**
3. **If an air plane traveling 3.5 m/s at 145 degrees collided with another traveling 3.9 m/s at 50 degrees, what is the resultant? (Draw to scale)**