Just for Practice 4

1. Find the resultant of 56 N acting at 77^0 and 77 N at 351^0 using Σx's and Σy's.

2. A certain fish can swim at 4.20 m/s in still water (call him fish "a"). What is the resulting *velocity* of fish "a" if it heads across a river that has a current of 4.70 m/s? (solve mathematically)

3. A 77.0 kg box is on a ramp that makes an angle of 23.0^o with the ground. What are the parallel(F_p) and perpendicular(F_N') forces applied by the box?

4. A ball is kicked at 32.0^o from the ground at 45.0 m/s. What are the horizontal and vertical components of its velocity?

5. Draw the point and vector diagram for a 68 kg sign being suspended by two cords. The left cord is at a 25^o angle with the horizontal and the right cord is at a 36^o angle with the horizontal. (solve graphically)