## Just for Practice 4r7

| 1. Find the resultant of 66 N acting at $107^0$ and 77 N at $191^0$ using $\Sigma x$ 's and $\Sigma y$ 's.   |
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| <ol> <li>Two forces act on act on an object. One force is 77N at 295<sup>0</sup> and the other one is 67 N at 355<sup>0</sup>. What is the resultant? (find graphically)</li> </ol>                                  |
| 3. A 87.0 kg box is on a ramp that makes an angle of $33.0^{\circ}$ with the ground. What are the parallel(F <sub>p</sub> ) and perpendicular(F <sub>N</sub> ') forces applied by the box?                           |
| 4. A ball is kicked at 22.0° from the ground at 65.0 m/s. What are the horizontal and vertical components of its velocity?   |
| 5. Draw the point and vector diagram for a 78 kg sign being suspended by two cords. The left cord is at a 35° angle with the horizontal and the right cord is at a 46° angle with the horizontal. (solve graphically |
| 6. A boat can travel 4.4 m's in still water. Where should it head if it wants to go $22^0$ upstream and the current is a t 2.6 m/s. (solve graphically)  |