Let's practice vectors!

List data, point diagram, vector diagram (draw vector using rules of vector addition) and solve mathematically

1. Two forces act on little Lucy. One force is 75 N acting due W and the second is 54 N acting due S. What is the resulting force acting on little Lucy?

2. A ball heads due S at 6.5 m/s and encounters a wind of 3.5 m/s blowing due E. What is the resulting velocity of the ball?