**CONTACT AND NON CONTACT FORCES**

Write the answer in your book USING FULL SENTENCES.

1. Describe the meaning of contact and non-contact forces
2. Provide 3 examples of a contact and non-contact force
3. A bird flies north with a force of 11N, the air resistance is 2N. Show the vector diagram, with the magnitude and displacement indicated clearly.
4. The same bird has a weight of 15N. What must the upthrust be for the bird to remain in flight?
5. Miss Jelley sits on the table with a weight of 558N. What is the reaction force of the table so that it doesn’t break?
6. Two teams are playing a game of rugby. They scrum, and the red team push south west with a force of 2000N. The blue team push north east with a force of 2050N. Which team will win? By what magnitude and in which direction?
7. Theres a punch bag. Mr Olley punches the punch bag west with a force of 800N. When the bag swings, air resistance to the east is 80N. With what force will the punch bag swing, and in which direction?
8. A man parachutes out his plane. At first he falls with a force of 600N. The air resistance is 400N. Will he speed up or fall at the same speed? Explain your answer
9. The same man then opens his parachute. The air resistance is now 600N. Will he speed up or fall at the same speed? Explain your answer.