**Right angle vector addition lab**

**Problems:**

1. **How can you calculate the velocity of an electric car?**
2. **How can you calculate the velocity of a 2m x 2m piece of paper that your partner is pulling?**
3. **While the paper is moving, how can you calculate the resultant of the car going over the moving paper?**
4. **How can you predict where the car will go as it travels across the moving paper?**

**Material: electric car, meter stick, stop watch, protractor.**

**Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **D** | **T** | **AV**  | **Resultant** | **Measured angle** |
| **Car** |  |  |  | **x** | **x** |
| **“River”** |  |  |  | **x** | **x** |
| **Car + “River”** | **x** | **x** | **x** |  |  |

**Calculations:**

**Conclusion: ?’s from notes**