

Vector Practice

- 1) Iron Man travels 478 m W and then makes a sharp turn and travels 159 m S. Calculate the resulting displacement. Create a vector diagram with each cm representing 10 m for all three vectors
- 2) A Eastbound Delta flight traveling at 286m/s E encounters a headwind blowing at 66 m/s W what is the planes resultant velocity? Create a vector diagram with each cm representing 10 m/s for all three vectors
- 3) A moose travels along a path a distance of 4.7 km W it then makes a 43° turn NW and travels 6.7 km Calculate the resultant displacement. Create a vector diagram with each cm representing 1.0 km for all three vectors
- 4) A death knight charges at a Valkyr with a velocity of 23 m/s N. After striking her moves backward at a velocity of 17m/s at an angle of 106° SE. Calculate the resultant velocity . Create a vector diagram with each cm representing 1.0 m/s for all three vectors
- 5) A goblin engineer is traveling at 47.2 m/s W when she turns on his afterburner which provide an additional 15 m/s W of velocity. What is her resultant velocity? Create a vector diagram with each cm representing 1.0 m/s for all three vectors
- 6) A teacher chases a student 156 m E after discovering he cheated on an exam. The student turns and travels S 16.3 S. How far do I travel before catching the student? Create a vector diagram with each cm representing 10 m/s for all three vectors