

Name: _____

Physics 11

Lesson 1.7 – Working with Vectors

Remember the rules for adding vectors?

- We can put them in any _____.
- Each time we add a new vector, we _____.
- The answer (_____) goes from _____.

To subtract vectors, we _____.

To multiply a vector by a scalar, we multiply its _____ and keep its _____ the same.

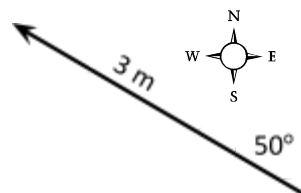
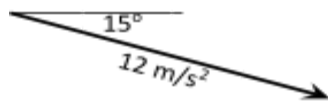
Examples:

3 m Down – 4 m Left

2 m/s West + (1 m/s North) x 3

What if, rather than *drawing* the resultants (like we just did), I wanted you to *write* them in words?

Examples: Describe the magnitude and direction of the following vectors.



Now let's put it all together (and review trigonometry).

Examples: Write the resultant.

3 m/s up + 4 m/s right

5 m west – 2x(2 m north)