Name: Period:

Graphically Adding Vectors

Sketch the following vectors on the opposite side of this paper:

•Use a scale of 2m = 1 cm

•Write the scale in the upper right corner of your drawing

•Label each vector with its magnitude (Magnitude is the size of the vector, not how long it is on your paper.)

•Label each angle with its magnitude (Angles are measured as degrees from N, S, E or W.)

1. 24m, 30º North of East

2. 20m, 25º East of South

3. 16m, 35º South of East

On a separate paper, sketch a diagram showing the addition of the three vectors above.

•Connect the vectors head-to-tail

•Sketch the resultant

•The resultant points from where you start toward where you end

•Label the resultant with the magnitude of the vector and the magnitude of the angle. Do not label the angle between two vectors.

1)

2)

3)