**Where am I Lab**

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| Map #11. -4.0 cm x2. 12.2 cm @ 38o3. -14.4 cm y4. 9.8 cm @ 108o | Map #21. 7.1 cm y2. 14.6 cm @ 295o3. -11.25 cm x4. 8.8 cm@ 36o |
| Map #31. -4.9 cm y2. 4.7 cm @ 327o3. 15.0 cm @ 119o4. 9.1cm x | Map #41. 6 cm x2. 10.5cm @ 215o3. 6.1 cm y4. 10.4 cm @ 35o |
| Map #51. -5.1 cm x2. 13.1 cm @ 36o3. -13.7 cm y4. 9 cm @ 160o | Map #61. 7.2 cm y2. -5.3 cm x3. 13.8 cm @ 327o4. 12.4 cm @ 208o |

Directions – Pick a map. You will need a piece of graph paper, a ruler, a 360o protractor, and a set of directions.

1. Start at the center of the paper, follow the directions placing them tip to tail like you are following a treasure map. The angles are trigonometric angles, so 0o is the x axis, 90o is the y axis, 180o is the –x axis, and 270o is the –y axis.
2. Come up with a shorter set (1 or 2 directions) that do the same thing.
3. Starting at the same location, follow the directions in a different order. (Does the order matter?)