**Where am I Lab**

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| Map #1  1. -4.0 cm x  2. 12.2 cm @ 38o  3. -14.4 cm y  4. 9.8 cm @ 108o | Map #2  1. 7.1 cm y  2. 14.6 cm @ 295o  3. -11.25 cm x  4. 8.8 cm@ 36o |
| Map #3  1. -4.9 cm y  2. 4.7 cm @ 327o  3. 15.0 cm @ 119o  4. 9.1cm x | Map #4  1. 6 cm x  2. 10.5cm @ 215o  3. 6.1 cm y  4. 10.4 cm @ 35o |
| Map #5  1. -5.1 cm x  2. 13.1 cm @ 36o  3. -13.7 cm y  4. 9 cm @ 160o | Map #6  1. 7.2 cm y  2. -5.3 cm x  3. 13.8 cm @ 327o  4. 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?)