**Where am I Lab**

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| Map #1  1. -5.3cm x  2. 16.2cm @ 38o  3. -19.2cm y  4. 13.1cm @ 108o | Map #2  1. 9.5cm y  2. 19.4cm @ 295o  3. -15cm x  4. 11.7cm@ 36o |
| Map #3  1. -6.5cm y  2. 6.2cm @ 327o  3. 21.4cm @ 119o  4. 12.1cm x | Map #4  1. 8cm x  2. 14cm @ 215o  3. 8.2cm y  4. 13.8cm @ 35o |
| Map #5  1. -6.8cm x  2. 17.4cm @ 36o  3. -18.2cm y  4. 12cm @ 160o | Map #6  1. 9.6cm y  2. -7.1cm x  3. 18.4cm @ 327o  4. 16.5cm @ 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 with the paper in landscape orientation, 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?)