

What if the values are not on the Unit Circle?

Remember SOHCAHTOA!!!!

Steps for finding inverse values when not on the unit circle:

1. draw a right triangle
2. label on angle θ
3. Use SOHCAHTOA and the pythagorean theorem to find the sides of the triangle
4. set up ratio of given problem

Examples:

1. $\cos(\arctan 3/4)$

2. $\cos(\arcsin 5/13)$

3. $\sin(\arctan 4/3)$

Practice:

1. $\cos(\arccos 4/5)$

2. $\sin(\arccos 6/10)$

3. $\tan(\arccos 3/5)$

4. $\tan(\arctan 3/5)$