

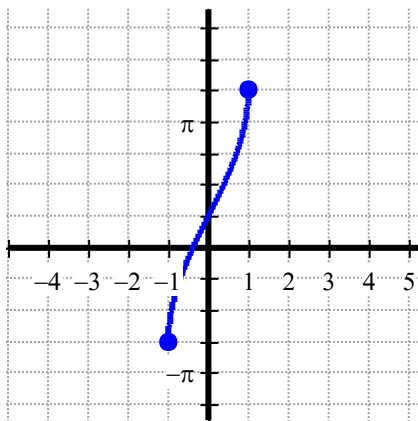
1. A geocacher is working on a multicache. From the starting point, he hikes .3 km at a heading of 75° to find the redirector. He then hikes .5 km at a heading of 100° to find the final stage of the geocache.
 - a. Draw a sketch of the hiker's journey.
 - b. Find the distance and heading that the geocacher must travel to return directly to his starting position.

Graph the following functions.

2. $y = \sin^{-1} x$
3. $y = \cos^{-1} x$
4. $y = \tan^{-1} x$
5. $y = 3\cos^{-1}(x-1)$
6. $y = \tan^{-1}\left(\frac{1}{2}x\right) - \frac{\pi}{4}$

Identify the following functions given their graphs.

7.



8.

