

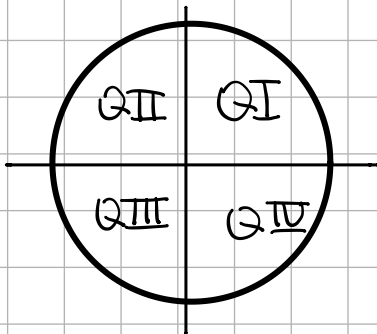
Name: _____

Date: 10/6/25

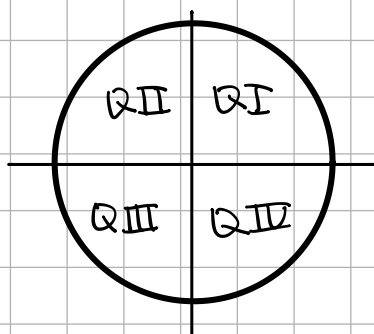
Session 8 ü

Warm up: Highlight or color in what quadrants we evaluate each inverse trig function in

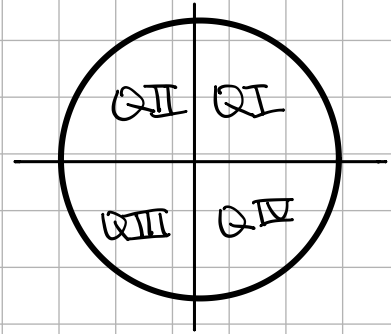
$\sin^{-1}(x)$



$\cos^{-1}(x)$

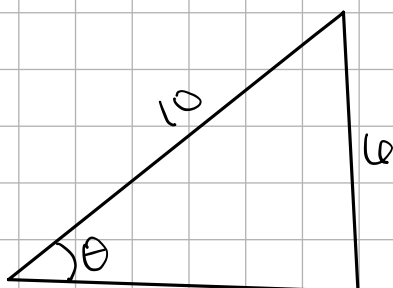


$\tan^{-1}(x)$

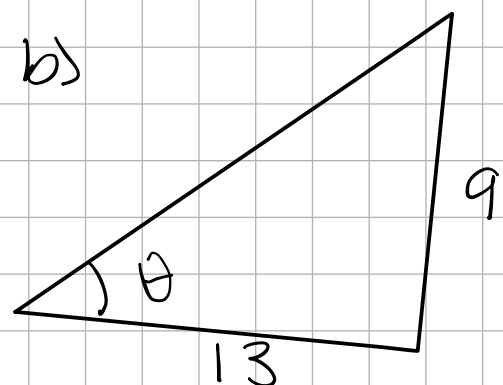


1. Find θ in degrees using inverse trig

a)

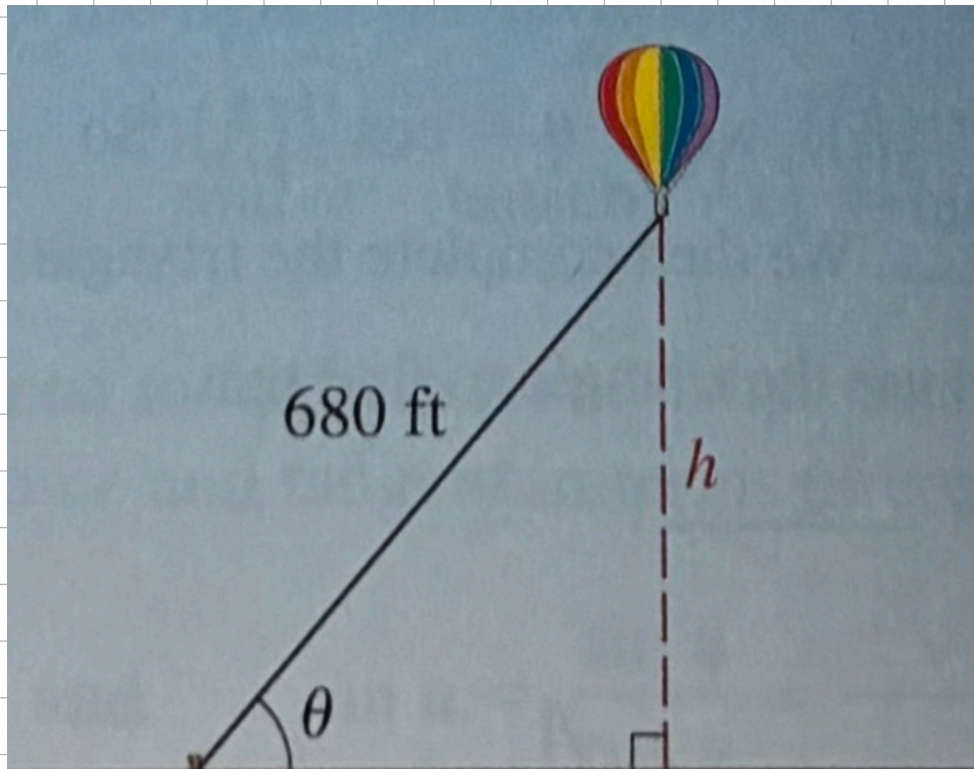


b)



2. Find $\tan(\cos^{-1}(5/13))$

Hint: Draw a triangle!!



3. A 680 ft rope anchors a hot-air balloon

a) find the angle θ as a function of the height, h , of the balloon

b) Find the angle θ if the balloon is 500 ft high