ERL MAP UNIT 2 Examples pg 3 Angles in Standard position

January 16, 2018 9:07 AM

Determine all possible values for angle, θ, given (recall: $0° \leq \theta \leq 180°$)

a) $\tan\theta = 1$

$\theta = \tan^{-1}(1)$

$\theta = 45°$

b) $\sin\theta = 0.866$

$\theta = \sin^{-1}(0.866)$

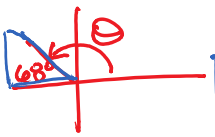
$\theta \doteq 60°$

OR $\theta \doteq 120°$

c) $\tan\theta = -2.5$

$\tan^{-1}(-2.5) = -68°$ ✗

Cannot have a negative angle inside a triangle.



$\theta = -68° + 180°$

$\theta = 112°$