Regents Exam Questions F.TF.A.2: Finding the Terminal Side of an Angle 2 www.jmap.org

F.TF.A.2: Finding the Terminal Side of an Angle 2

- 1 In which quadrant does θ lie if $\tan \theta < 0$ and $\csc \theta > 0$?
- 2 If $\sin A < 0$ and $\cot A > 0$, in which quadrant does the terminal side of $\angle A$ lie?
- 3 In which quadrant are both tangent and cosecant negative?

4 If
$$\sin x = -\frac{2}{3}$$
 and $\tan x < 0$, in which quadrant does $\angle x$ terminate?

5 Natalia's teacher has given her the following information about angle θ . • $\pi < \theta < 2\pi$

•
$$\cos \theta = \frac{\sqrt{3}}{4}$$

Explain how Natalia can determine if the value of $\tan \theta$ is positive or negative.

Name:

F.TF.A.2: Finding the Terminal Side of an Angle 2 Answer Section

1	ANS: II
2	REF: 089409siii ANS: III
3	REF: 060006siii ANS: IV
4	REF: 010107siii ANS: IV
5	REF: 018705siii ANS: $\pi < \theta < 2\pi \rightarrow$ Quadrant III or IV θ must be in Quadrant IV, where $\tan \theta$ is negative.
	$\cos \theta = \frac{\sqrt{3}}{4} \rightarrow \text{Quadrant I or IV}$

REF: 012332aii