

A2.A.60: Finding the Terminal Side of an Angle 3: Sketch the unit circle and represent angles in standard position

- 1 Which functions are positive for angles terminating in Quadrant II?
 - 1) sine and cosine
 - 2) sine and secant
 - 3) sine and tangent
 - 4) sine and cosecant

- 2 Which trigonometric function is positive in Quadrant IV?
 - 1) $\sin x$
 - 2) $\sec x$
 - 3) $\csc x$
 - 4) $\cot x$

- 3 An angle, P , drawn in standard position, terminates in Quadrant II if
 - 1) $\cos P < 0$ and $\csc P < 0$
 - 2) $\sin P > 0$ and $\cos P > 0$
 - 3) $\csc P > 0$ and $\cot P < 0$
 - 4) $\tan P < 0$ and $\sec P > 0$

- 4 In which quadrant does θ lie if $\tan \theta < 0$ and $\csc \theta > 0$?

- 5 If $\sin A < 0$ and $\cot A > 0$, in which quadrant does the terminal side of $\angle A$ lie?

- 6 In which quadrant are both tangent and cosecant negative?

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

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1 ANS: 4 REF: 080909b

2 ANS: 2 REF: 080220siii

3 ANS: 3
If $\csc P > 0$, $\sin P > 0$. If $\cot P < 0$ and $\sin P > 0$, $\cos P < 0$

REF: 061320a2

4 ANS:
II

REF: 089409siii

5 ANS:
III

REF: 060006siii

6 ANS:
IV

REF: 010107siii

7 ANS:
IV

REF: 018705siii