

PC12 LG 5A (Formative Assessment)

Marking Teacher: _____

Name: _____

Student #: _____

1. Determine all of the angles A that are co-terminal with 100° in the domain $-720^\circ \leq A < 360^\circ$.
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2. Write an expression for all of the angles that are co-terminal with -50° .
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3. If the point (m, k) is the point of intersection of the terminal arm of angle B , in standard position, and the unit circle centered at $(0, 0)$, what is the value of $\csc B$?
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4. Find the exact value for each trigonometric ratio below:

a) $\sec 315^\circ$

b) $\sin -270^\circ$

c) $\cot 540^\circ$

d) $\csc^2 225^\circ$

5. Find each of the following to 3 decimal places:

a) $\csc 200^\circ$

b) $\cot -250^\circ$

6. If B is an angle in standard position and $\csc B > 0$ and $\cot B < 0$, in which quadrants may B terminate?

7. Find the exact value of $\tan^2 225^\circ - \csc^4 330^\circ$.

8. If the terminal arm of angle A , in standard position, passes through the point $(3, -6)$ find the exact values of the six trig ratios of angle A .

9. Given $\cos A = \frac{-1}{3}$ find all the values of $\cot A$ if:

a) $0^\circ \leq A < 360^\circ$

b) $\sin A < 0$

c) $-180^\circ \leq A < 0^\circ$

d) $-90^\circ \leq A < 90^\circ$

10. If $\cot B = \frac{-2}{5}$, $0^\circ \leq B < 360^\circ$, find the exact value(s) of $\sec A$.

PC12 LG 5B (Formative Assessment)

Marking Teacher: _____

Name: _____

Student #: _____

1. Determine all of the angles A that are co-terminal with 300° in the domain $-720^\circ \leq A < 840^\circ$.

2. Write an expression for all of the angles that are co-terminal with -80° .

3. If the point (m, k) is the point of intersection of the terminal arm of angle B , in standard position, and the unit circle centered at $(0, 0)$, what is the value of $\cot B$?

4. Find the exact value for each trigonometric ratio below:

a) $\sec -120^\circ$

b) $\sin -180^\circ$

c) $\tan 540^\circ$

d) $\sec^4 225^\circ$

5. Find each of the following to 3 decimal places:

a) $\sec -400^\circ$

b) $\cot 550^\circ$

6. If B is an angle in standard position and $\sec B > 0$ and $\csc B < 0$, in which quadrants may B terminate?

7. Find the exact value of $\tan^2 135^\circ + \sec^4 300^\circ$.

8. If the terminal arm of angle A , in standard position, passes through the point $(-2, -6)$ find the exact values of the six trig ratios of angle A .

9. Given $\cos A = \frac{-2}{3}$ find all the values of $\sec A$ if:

a) $0^\circ \leq A < 720^\circ$

b) $\cot A < 0$

c) $-180^\circ \leq A < 0^\circ$

d) $-90^\circ \leq A < 180^\circ$

10. If $\cot B = \frac{-2}{5}$, $0^\circ \leq B < 360^\circ$, find the exact value(s) of $\csc A$.