

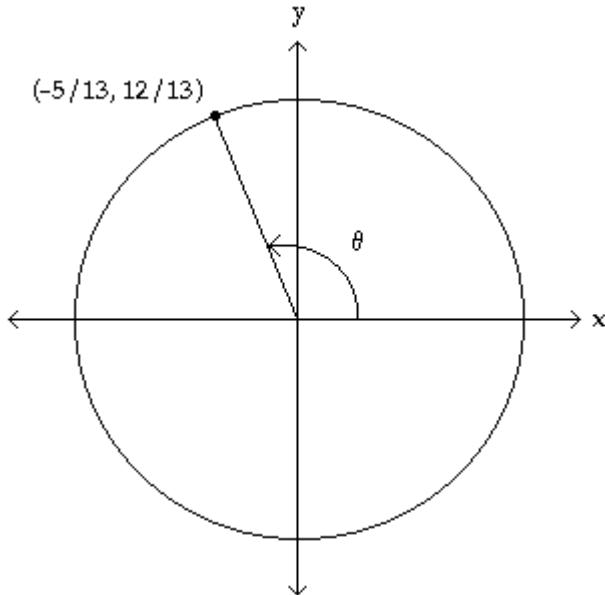
The Unit Circle

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

The figure shows angle θ in standard position with its terminal side intersecting the unit circle. Evaluate $\sin \theta$ and $\cos \theta$.

1)

1) _____



A) $\sin \theta = -\frac{12}{5}$, $\cos \theta = -\frac{5}{12}$

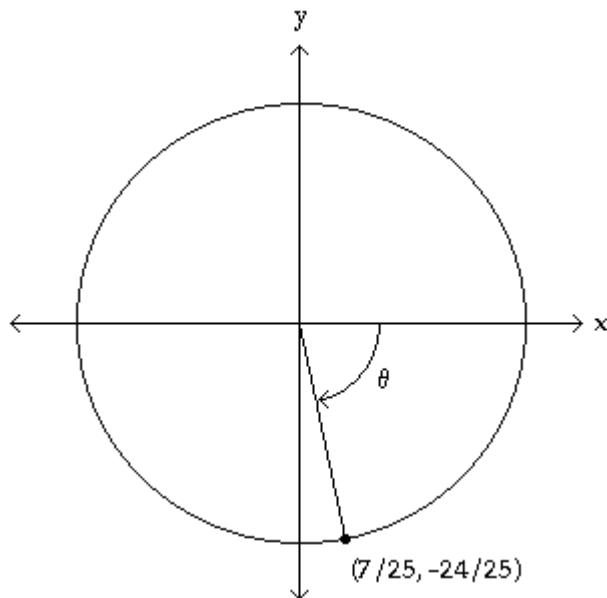
B) $\sin \theta = \frac{12}{13}$, $\cos \theta = -\frac{5}{13}$

C) $\sin \theta = -\frac{5}{13}$, $\cos \theta = \frac{12}{13}$

D) $\sin \theta = \frac{13}{12}$, $\cos \theta = -\frac{13}{5}$

2)

2) _____



A) $\sin \theta = -\frac{24}{7}$, $\cos \theta = -\frac{7}{24}$

B) $\sin \theta = -\frac{25}{24}$, $\cos \theta = \frac{25}{7}$

C) $\sin \theta = \frac{7}{25}$, $\cos \theta = -\frac{24}{25}$

D) $\sin \theta = -\frac{24}{25}$, $\cos \theta = \frac{7}{25}$

Find the exact value. If the value of the function is not defined, write undefined.

3) $\sin(-180^\circ)$

A) Undefined

B) -1

C) 0

D) 1

3) _____

4) $\csc 270^\circ$

A) 0

B) 2

C) Undefined

D) -1

4) _____

5) $\sin 270^\circ$

A) 0

B) $\frac{1}{2}$

C) Undefined

D) -1

5) _____

6) $\cos(-90^\circ)$

A) -1

B) $\frac{\sqrt{3}}{2}$

C) Undefined

D) 0

6) _____

7) $\cot(-810^\circ)$

A) -1

B) 0

C) Undefined

D) $\frac{\sqrt{2}}{2}$

7) _____

8) $\sec 900^\circ$

A) 0

B) Undefined

C) -1

D) 1

8) _____

Answer Key

Testname: THE UNIT CIRCLE

- 1) B
- 2) D
- 3) C
- 4) D
- 5) D
- 6) D
- 7) B
- 8) C