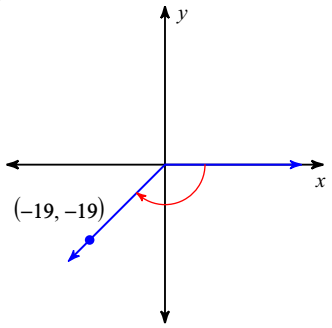
Algebra 3/Trig - NO CALCULATOR Name_____

Study Guide (Due Thur - end of period)

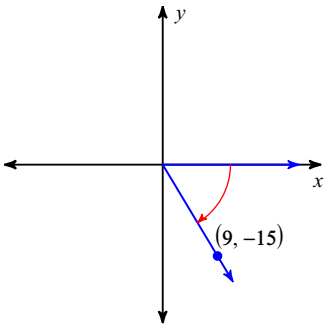
Date_____ Period____

Use the given point on the terminal side of angle θ to find the value of the trigonometric function indicated.

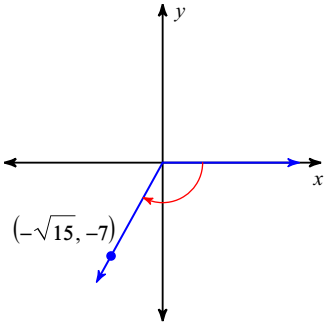
1) cos θ



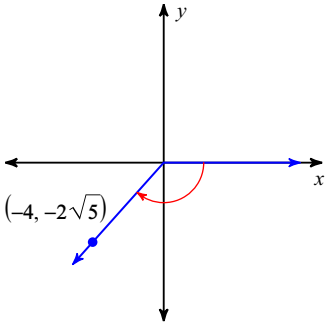
2) tan θ



3) sin θ

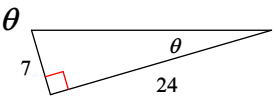


4) cos θ

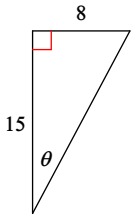


Find the value of the trig function indicated.

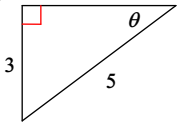
5) cos θ



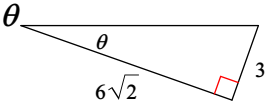
6) sin θ



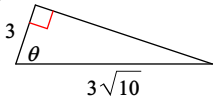
7) cos θ



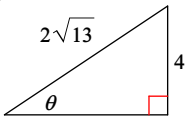
8) cos θ



9) tan θ



10) tan θ



11) Find $\sin\theta$ if $\tan\theta = \frac{7}{24}$

12) Find $\cos\theta$ if $\sin\theta = \frac{\sqrt{2}}{2}$

13) Find $\cos\theta$ if $\sin\theta = \frac{\sqrt{13}}{7}$

14) Find $\sin\theta$ if $\tan\theta = 2$

Find the exact value of each trigonometric function. Use ONLY your yellow sheet.

15) $\cos 135°$

16) $\tan 0°$

17) $\cos 45°$

18) $\sin -60°$

19) $\sin 150°$

20) $\tan 270°$

21) $\sin 90°$

22) $\tan 240°$

23) $\sin\frac{5\pi}{3}$

24) $\sin -\frac{2\pi}{3}$

25) $\tan\frac{7\pi}{4}$

26) $\cos -\frac{3\pi}{2}$

27) $\cos\frac{7\pi}{6}$

28) $\tan -\frac{11\pi}{6}$

29) $\sin -\frac{5\pi}{6}$

30) $\sin\frac{3\pi}{2}$

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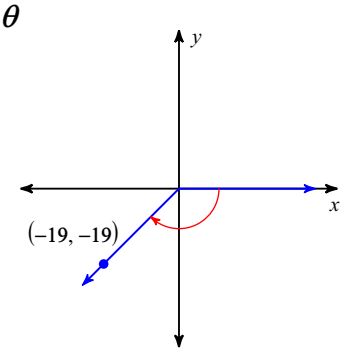
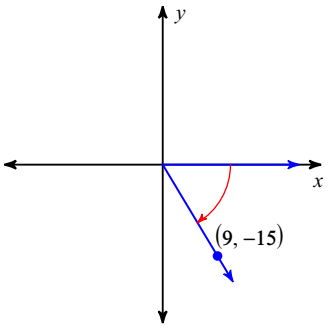
Use the given point on the terminal side of angle θ to find the value of the trigonometric function indicated.

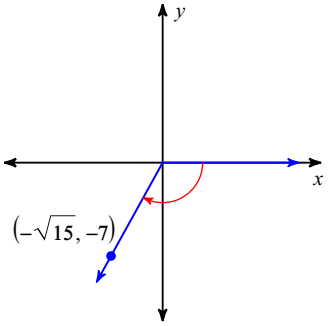
1) cos θ $-\frac{\sqrt{2}}{2}$



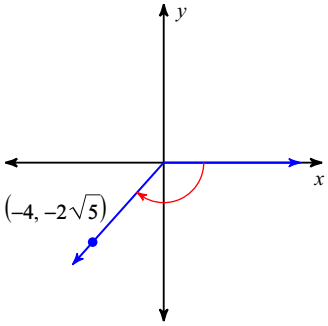
2) tan θ $-\frac{5}{3}$



3) sin θ $-\frac{7}{8}$

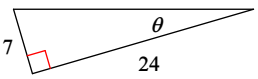


4) cos θ $-\frac{2}{3}$

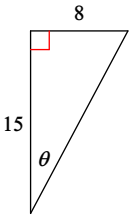


Find the value of the trig function indicated.

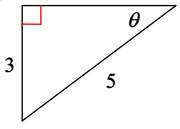
5) cos θ $\frac{24}{25}$



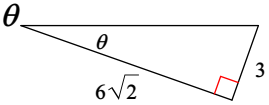
6) sin θ $\frac{8}{17}$



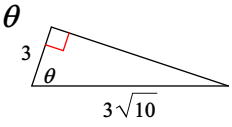
7) cos θ $\frac{4}{5}$



8) cos θ $\frac{2\sqrt{2}}{3}$

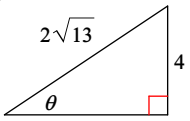


9) tan θ



3

10) tan θ $\frac{2}{3}$



11) Find $\sin\theta$ if $\tan\theta = \frac{7}{24}$

$\frac{7}{25}$

12) Find $\cos\theta$ if $\sin\theta = \frac{\sqrt{2}}{2}$ $\frac{\sqrt{2}}{2}$

13) Find $\cos\theta$ if $\sin\theta = \frac{\sqrt{13}}{7}$

$\frac{6}{7}$

14) Find $\sin\theta$ if $\tan\theta = 2$ $\frac{2\sqrt{5}}{5}$

Find the exact value of each trigonometric function. Use ONLY your yellow sheet.

15) $\cos 135°$ $-\frac{\sqrt{2}}{2}$

16) $\tan 0°$

0

17) $\cos 45°$ $\frac{\sqrt{2}}{2}$

18) $\sin -60°$ $-\frac{\sqrt{3}}{2}$

19) $\sin 150°$ $\frac{1}{2}$

20) $\tan 270°$

Undefined

21) $\sin 90°$

1

22) $\tan 240°$

$\sqrt{3}$

23) $\sin\frac{5\pi}{3}$ $-\frac{\sqrt{3}}{2}$

24) $\sin -\frac{2\pi}{3}$ $-\frac{\sqrt{3}}{2}$

25) $\tan\frac{7\pi}{4}$

-1

26) $\cos -\frac{3\pi}{2}$

0

27) $\cos\frac{7\pi}{6}$ $-\frac{\sqrt{3}}{2}$

28) $\tan -\frac{11\pi}{6}$ $\frac{\sqrt{3}}{3}$

29) $\sin -\frac{5\pi}{6}$ $-\frac{1}{2}$

30) $\sin\frac{3\pi}{2}$

-1