

5.1-5.5 No Calculator Retest Packet

Hour: _____

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

1) $\cot \theta; (-7, 6)$

2) $\tan \theta; (-\sqrt{11}, 5)$

3) $\tan \theta; (-3, -4)$

4) $\sin \theta; (\sqrt{7}, -3)$

5) $\cot \theta; (18, 4)$

6) $\sin \theta; (8, \sqrt{17})$

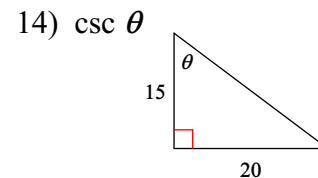
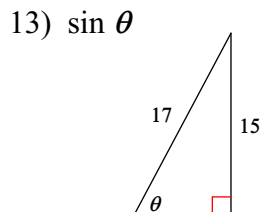
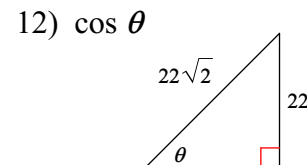
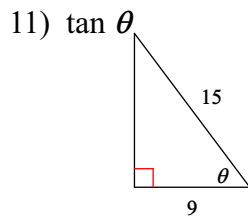
7) $\csc \theta; (9, \sqrt{19})$

8) $\sin \theta; (3, -\sqrt{7})$

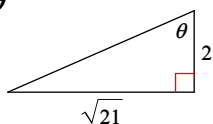
9) Suppose x is an angle in standard position whose terminal side lies in Quadrant IV. If the $\cos x = \frac{2}{5}$, find the $\tan x$.

10) Suppose x is an angle in standard position whose terminal side lies in Quadrant IV. If the $\sin x = -\frac{4}{7}$, find the $\sec x$.

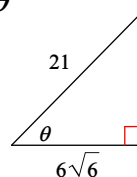
Find the value of the trig function indicated.



15) $\sin \theta$



16) $\sec \theta$



17) Suppose x is an angle in standard position whose terminal side lies in Quadrant I, find the exact value of $\tan x(\arccos 3/4)$.

18) Suppose x is an angle in standard position whose terminal side lies in Quadrant I, find the exact value of $\sec x(\arctan 5/12)$.

19) Label the Unit circle with degrees, sin, cos and tan.

Find the exact value of each trigonometric function. Assume $0 \leq x \leq 360$.

20) $\sin 930^\circ$

21) $\cos -870^\circ$

22) $\cot 675^\circ$

23) $\cos -810^\circ$

24) $\csc -945^\circ$

25) $\tan -180^\circ$

26) $\cot 495^\circ$

27) $\sec -900^\circ$

28) $\csc 420^\circ$

29) $\sin -990^\circ$

30) $\tan -330^\circ$

31) $\csc 300^\circ$

32) $\tan 480^\circ$

33) $\sin -420^\circ$

$$34) \cos x^\circ = \frac{\sqrt{3}}{2}$$

$$36) \sec x^\circ = -2$$

$$38) \tan x^\circ = 1$$

$$35) \cot x^\circ = \text{Undefined}$$

$$37) \sec x^\circ = 2$$

$$39) \csc x^\circ = \text{undefined}$$

Answers to 5.1-5.5 No Calculator Retest Packet

1) $-\frac{7}{6}$

2) $-\frac{5\sqrt{11}}{11}$

3) $\frac{4}{3}$

4) $-\frac{3}{4}$

5) $\frac{9}{2}$

6) $\frac{\sqrt{17}}{9}$

7) $\frac{10\sqrt{19}}{19}$

8) $-\frac{\sqrt{7}}{4}$

9) $-\frac{\sqrt{21}}{2}$

10) $\frac{\sqrt{33}}{7}$

11) $\frac{4}{3}$

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

13) $\frac{15}{17}$

14) $\frac{5}{4}$

15) $\frac{\sqrt{21}}{5}$

16) $\frac{7\sqrt{6}}{12}$

17) $\frac{\sqrt{7}}{3}$

18) $13/12$

19) See Unit Circle

20) $-\frac{1}{2}$

21) $-\frac{\sqrt{3}}{2}$

22) -1

23) 0

24) $\sqrt{2}$

25) 0

26) -1

27) -1

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

29) 1

30) $\frac{\sqrt{3}}{3}$

31) $-\frac{2\sqrt{3}}{3}$

32) $-\sqrt{3}$

33) $-\frac{\sqrt{3}}{2}$

34) $30^\circ, 330^\circ$

35) $180^\circ, 0^\circ$

36) $120^\circ, 240^\circ$

37) $300^\circ, 60^\circ$

38) $45^\circ, 225^\circ$

39) $0^\circ, 180^\circ$