Precalc Name_____

Practice with sin, cos, tan (bits of 6.5 and 7.2)

Find the exact value of each trigonometric function. (6.5 practice)

1) $\sin -\frac{23\pi}{6}$

2) $\sin -\frac{3\pi}{4}$

3) $\cos -\frac{14\pi}{3}$

4) $\tan \frac{11\pi}{6}$

5) $\cos -\frac{13\pi}{6}$

6) $\sin \frac{4\pi}{3}$

7) $\tan \frac{19\pi}{6}$

8) $\cos -\frac{3\pi}{4}$

9) $\sin \frac{15\pi}{4}$

10) $\cos \frac{11\pi}{6}$

The given point is a point on a circle centered at the origin. Find the value of the trig function for the angle θ whose terminal ray intersects the circle at that point. (7.2 practice)

11) $\cos\theta; (-8, \sqrt{17})$

12) $\tan\theta; (-\sqrt{13}, -6)$

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

14) $\cos\theta; (16, -12)$

15) $\sin\theta; (-\sqrt{5}, 2)$

16) $\tan\theta; (9, -12)$

17) $\cos\theta; (2, 2\sqrt{3})$

18) $\cos\theta; (-7, \sqrt{15})$

19) $\tan\theta; (14, -5)$

20) $\sin\theta; (-2, -\sqrt{5})$

Answers to Practice with sin, cos, tan (bits of 6.5 and 7.2)

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

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

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

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

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

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

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

8) $-\frac{\sqrt{2}}{2}$

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

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

11) $-\frac{8}{9}$

12) $\frac{6\sqrt{13}}{13}$

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

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

15) $\frac{2}{3}$

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

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

18) $-\frac{7}{8}$

19) $-\frac{5}{14}$

20) $-\frac{\sqrt{5}}{3}$