

Name _____ Date _____

Mixed Review 5-3

P is a point on the unit circle. Find the missing coordinates.

1) $P\left(-\frac{5}{12}, y\right)$ in Q3

2) $P\left(x, -\frac{\sqrt{5}}{5}\right)$ in Q5

3) $P\left(-\frac{1}{2}, y\right)$ in Q3

Find the other values for $\sin t$, $\cos t$, $\tan t$, given:

4) $\sin t = \frac{\sqrt{2}}{2}$ in Q3

5) $\cos t = \frac{3}{5}$ in Q5

6) $\tan t = \sqrt{3}$ in Q1

What is the reference number \hat{t} ?

7) $\frac{2\pi}{3}$

8) $-\frac{7\pi}{6}$

9) $\frac{5\pi}{4}$

10) $\frac{17\pi}{6}$

Find the exact value.

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

12) $-\frac{7\pi}{6}$

13) $\sec \frac{5\pi}{6}$

14) $\cos\left(-\frac{\pi}{3}\right)$

15) $\cot(-\pi)$

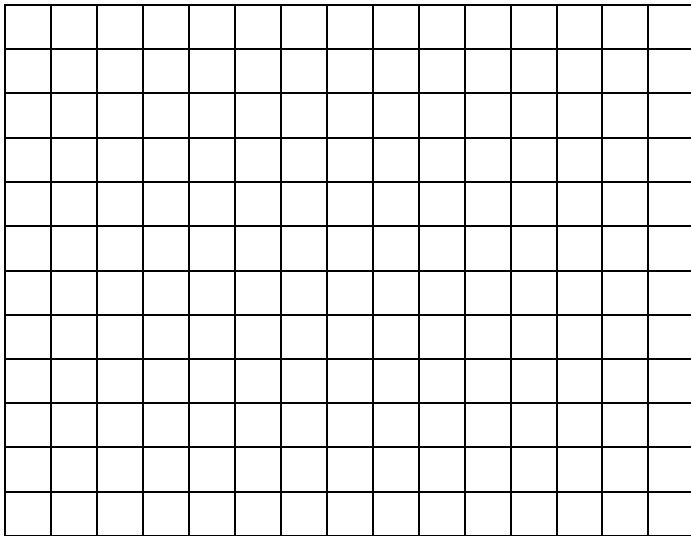
16) $\csc \frac{\pi}{4}$

17) $\sin\left(\frac{3\pi}{2}\right)$

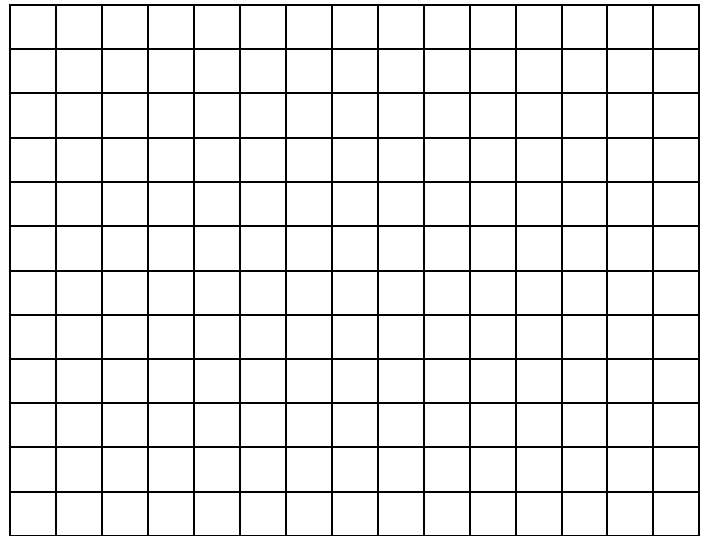
18) $\sec\left(\frac{-\pi}{2}\right)$

19) $\tan\left(\frac{-7\pi}{6}\right)$

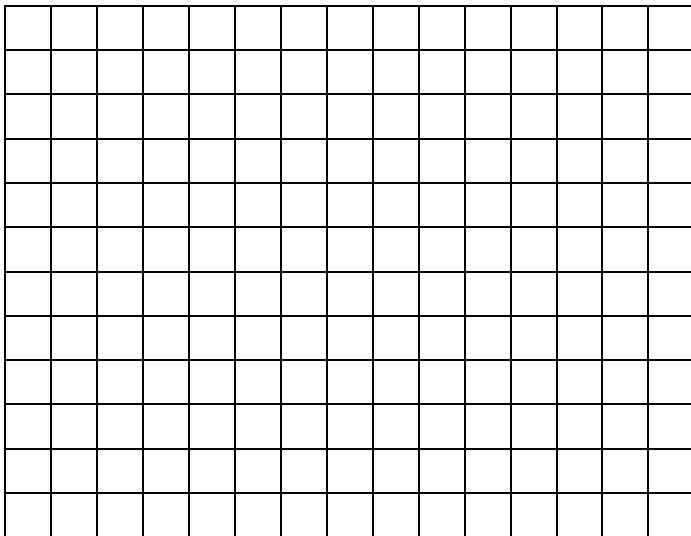
$$20) y = -2 \sin t$$



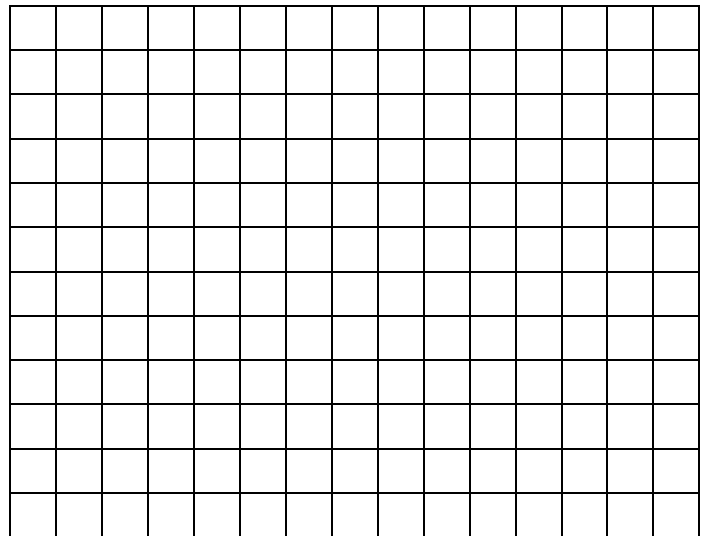
$$21) y = 2 + \sin(2t)$$



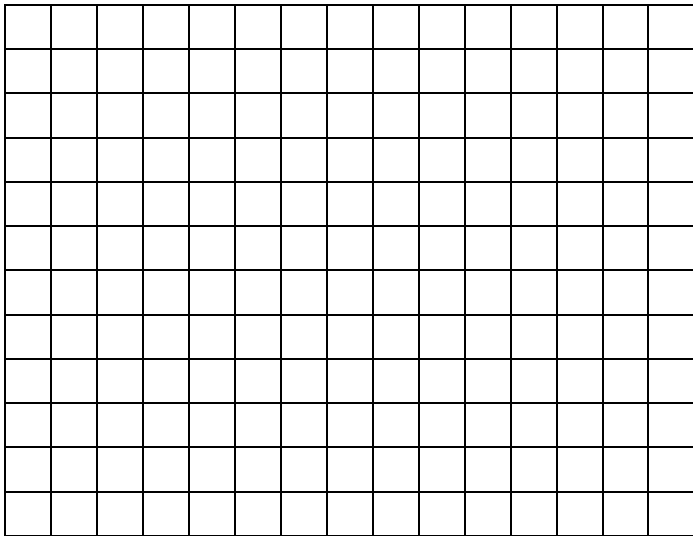
$$22) y = \sin\left(t + \frac{\pi}{6}\right)$$



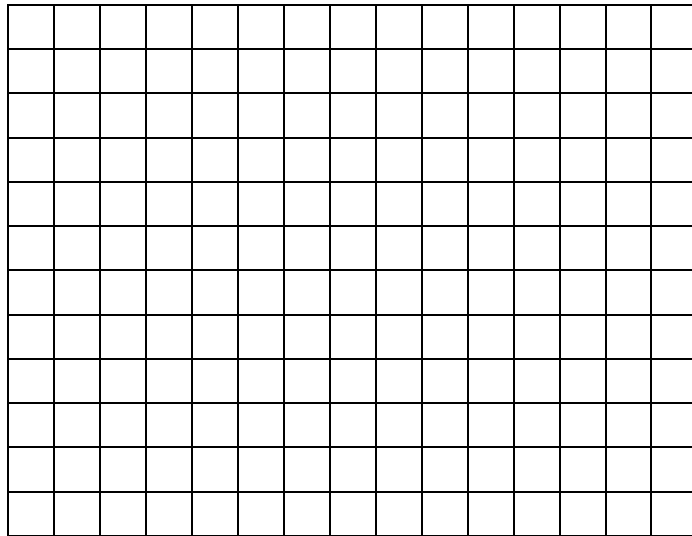
$$23) y = 1 - \sin\left(\pi t - \frac{\pi}{2}\right)$$



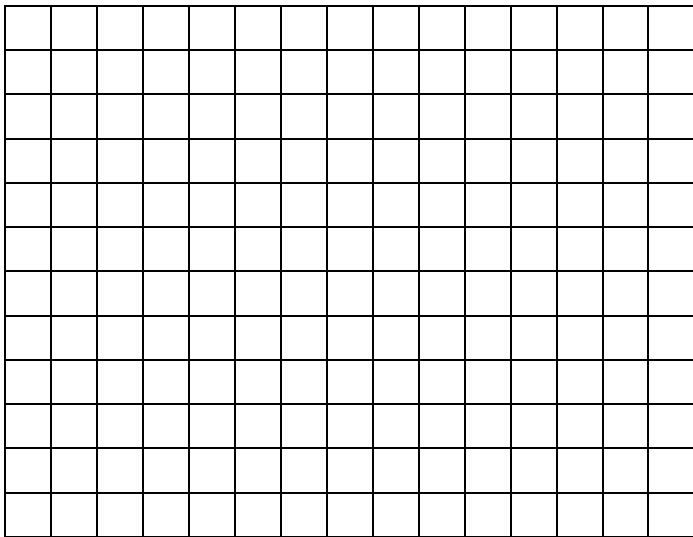
$$24) y = \frac{1}{2} \cos t$$



$$25) y = \cos\left(\frac{t}{3}\right) - 1$$



$$26) y = \cos\left(t - \frac{\pi}{4}\right)$$



$$27) y = 3 \cos\left(2t + \frac{\pi}{3}\right)$$

