

Review 34-1, 34-2, 34-3

Key

① Change to radian measure

(a) $18^\circ \frac{1}{10}\pi$

(b) $-72^\circ -\frac{2}{3}\pi$

(c) $270^\circ \frac{3}{2}\pi$

② Change to degree measure

(a) $\frac{5}{2}\pi \ 450^\circ$

(b) $-\frac{7}{9}\pi \ -140^\circ$

(c) $\frac{5}{4}\pi \ 180^\circ + 45^\circ = 225^\circ$

In 1-12, give the exact value. Do not use a calculator.



1. $\cos 90^\circ$

0

2. $\cos 0^\circ$

1

3. $\sin 270^\circ$

-1

4. $\cos 180^\circ$

-1

5. $\sin 180^\circ$

0

6. ~~sin 5/2 pi~~

1

7. $\sin \frac{-\pi}{2}$

0

8. $\cos \frac{2\pi}{2}$

1

9. $\cos(-90^\circ)$

0

10. $\cos \frac{\pi}{2}$

0

11. $\cos \frac{-\pi}{2}$

-1

12. $\sin(-270^\circ)$

1

In 14-21, refer to the drawing at the right of the unit circle with the given points on it. Give the letter that could represent the value.

14. $\sin(-310^\circ)$

d

15. $\cos 0^\circ$

a

16. $\cos 80^\circ$

e

17. $\cos 50^\circ$

c

18. $\sin 440^\circ$

f

19. $\sin 1080^\circ$

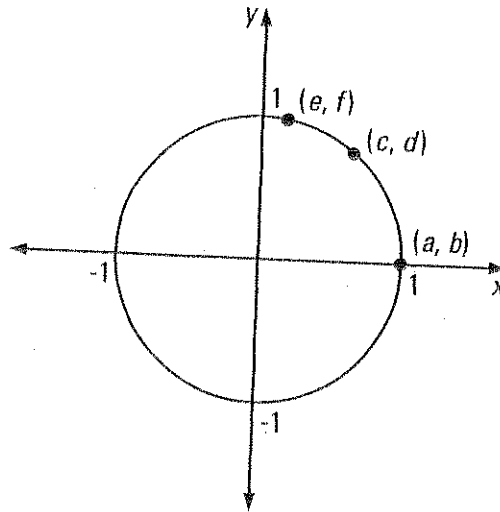
b

20. $\cos(-670^\circ)$

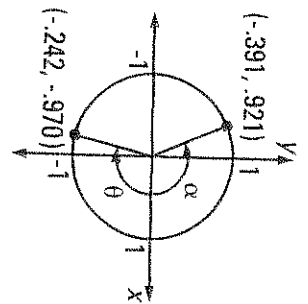
c

21. $\sin 0^\circ$

b



- In 21-24, use the unit circle at the right to find the value.
- 21. $\cos \alpha$ -0.391
 - 22. $\sin \theta$ -0.970
 - 23. $\cos(\pi + \alpha)$ 0.242
 - 24. $\sin(\pi - \alpha)$ 0.921



In 17-20, use the unit circle at the right. Give the letter which could represent the value.

17. $\cos 75^\circ$

a

18. $\sin(-180^\circ)$

d

19. $\sin(-80^\circ)$

f

20. $\cos 280^\circ$

e

