

F.TF.A.2: Determining Trigonometric Functions 2b

- 1 At $x = \frac{\pi}{2}$, the difference $2 \sin x - \cos 2x$ is
- 2 The value of $\cos^2\left(\frac{\pi}{4}\right)$ is
- 3 If $f(x) = \sin^2 x$, then $f\left(\frac{\pi}{2}\right)$ equals
- 4 If $f(x) = \sin x + \cos 2x$, then $f(\pi)$ is
- 5 The value of $\sin \frac{\pi}{3} \cos \pi$ is
- 6 If $f(x) = \sin \frac{x}{4}$, then $f(\pi)$ equals
- 7 The value of $\cos \frac{\pi}{3} - \sin \frac{3\pi}{2}$ is
- 8 If $f(x) = \cos 3x + \sin x$, then $f\left(\frac{\pi}{2}\right)$ equals
- 9 The value of $\sin\left(\frac{3\pi}{2}\right) - \cos\left(\frac{\pi}{3}\right)$ is
- 10 The numerical value of $\sin \frac{3\pi}{2} + \cos \frac{\pi}{4}$ is
- 11 If $f(x) = \sin 2x + \cos x$, what is $f\left(\frac{\pi}{4}\right)$?
- 12 The value of $\sin \frac{7\pi}{6}$ is
- 13 If $f(x) = 4 \cos 3x$, what is the value of $f\left(\frac{\pi}{4}\right)$?
- 14 The value of $\sin \frac{3\pi}{2} + \cos \frac{2\pi}{3}$ is
- 15 The value of $\sin \frac{4\pi}{3}$ is
- 16 If $f(x) = \cos x + \tan \frac{x}{3}$, then $f(\pi)$ is
- 17 The value of $\sin \frac{\pi}{6} + \tan \frac{\pi}{4}$ is
- 18 Which expression, when rounded to three decimal places, is equal to -1.155 ?
 - 1) $\sec\left(\frac{5\pi}{6}\right)$
 - 2) $\tan(49^\circ 20')$
 - 3) $\sin\left(-\frac{3\pi}{5}\right)$
 - 4) $\csc(-118^\circ)$

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Answer Section

1 ANS:
3

REF: 068437siii

2 ANS:
 $\frac{1}{2}$

REF: 088426siii

3 ANS:
1

REF: 089322siii

4 ANS:
1

REF: 068924siii

5 ANS:
 $-\frac{\sqrt{3}}{2}$

REF: 088935siii

6 ANS:
 $\frac{1}{2}\sqrt{2}$

REF: 019420siii

7 ANS:
 $1\frac{1}{2}$

REF: 069531siii

8 ANS:
1

REF: 069718siii

9 ANS:
 $-1\frac{1}{2}$

REF: 089722siii

10 ANS:

$$-1 + \frac{\sqrt{2}}{2}$$

REF: 010017siii

11 ANS:

$$1 + \frac{\sqrt{2}}{2}$$

REF: 080317siii

12 ANS:

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

REF: 018732siii

13 ANS:

$$-2\sqrt{2}$$

REF: 089626siii

14 ANS:

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

REF: 069819siii

15 ANS:

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

REF: 060120siii

16 ANS:

$$\sqrt{3} - 1$$

REF: 068129siii

17 ANS:

$$\frac{3}{2}$$

REF: 068528siii

18 ANS: 1

REF: 011203a2