数学 II 計算力チェック

_____年_____組_____番　名前_____

1. 次の三角関数の値を求めよ。

(1) $\cos \dfrac{5}{2}\pi$

(2) $\sin \dfrac{5}{4}\pi$

(3) $\tan \left(-\dfrac{\pi}{2} \right)$

(4) $\cos \left(-\dfrac{5}{6}\pi \right)$

(5) $\sin \dfrac{9}{4}\pi$

(6) $\tan \left(-\dfrac{\pi}{3} \right)$

(7) $\sin \dfrac{10}{3}\pi$

(8) $\cos \dfrac{19}{6}\pi$

(9) $\tan \dfrac{5}{6}\pi$

(10) $\cos \dfrac{11}{4}\pi$

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解答

(1) $\cos\dfrac{5}{2}\pi = \cos\dfrac{\pi}{2} = 0$

(2) $-\dfrac{1}{\sqrt{2}}$

(3) ない

(4) $-\dfrac{\sqrt{3}}{2}$

(5) $\sin\dfrac{9}{4}\pi = \sin\dfrac{\pi}{4} = \dfrac{1}{\sqrt{2}}$

(6) $-\sqrt{3}$

(7) $\sin\dfrac{10}{3}\pi = \sin\dfrac{4}{3}\pi = -\dfrac{\sqrt{3}}{2}$

(8) $\cos\dfrac{19}{6}\pi = \cos\dfrac{7}{6}\pi = -\dfrac{\sqrt{3}}{2}$

(9) $-\dfrac{1}{\sqrt{3}}$

(10) $\cos\dfrac{11}{4}\pi = \cos\dfrac{3}{4}\pi = -\dfrac{1}{\sqrt{2}}$