
5. จงหาคาบ แอมพลิจูด และ เรนจ์ของฟังก์ชันต่อไปนี้

6. กำหนดฟังก์ชันต่อไปนี้ จงเคราะห์ว่ากราฟของฟังก์ชัน ตรงกับกราฟสีอะไร
6.1)

$$
y=-\cos (x)-1
$$

คือกราฟสี $\qquad$
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$\qquad$

$$
\text { No1 }=\left(\cos (A)=\frac{7}{9}\right), N o 2=\left(\sec (A)=\frac{9}{2}\right), N o 3=\left(\tan (A)=\frac{x}{5}\right), N o 4=\left(\csc (A)=\frac{4}{x}\right)
$$

$$
\begin{gathered}
\text { No5 }=\left[\begin{array}{ccc}
. l=(y=\cos (\theta)) & .2=(y=-5 \sin (\theta)) & .3=(y=\sin (4 \theta)) \\
.4=(y=-4 \cos (2 \theta)) & .5=\left(y=-2 \cos \left(\frac{\theta}{6}\right)\right) & .6=\left(y=-\frac{1}{5} \sin (4 \theta)+4\right) \\
.7=\left(y=-\frac{1}{5} \cos \left(\frac{\pi \theta}{2}\right)\right) & .8=(y=-3 \sin (2 \pi \theta)-1) & \frac{M A}{T H}
\end{array}\right] \\
\text { No6 }=\left[\begin{array}{lll}
y=-\cos (x)-1 & y=-\frac{1}{2} \cos \left(\frac{x}{2}\right) & y=3 \sin (2 \pi x)+3 \\
y=3 \cos \left(\frac{x}{2}\right)+4 & y=\frac{5}{2} \sin \left(\frac{\pi x}{3}\right) & \frac{M A}{T H}
\end{array}\right]
\end{gathered}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX6300102-00002XX TrigonometryExercise Answers for No. 2

$$
\begin{gathered}
\text { Ans } 1=\left[\sin (A)=\frac{4 \sqrt{2}}{9}, \cos (A)=\frac{7}{9}, \tan (A)=\frac{4 \sqrt{2}}{7}, \csc (A)=\frac{9 \sqrt{2}}{8}, \sec (A)=\frac{9}{7}, \cot (A)=\frac{7 \sqrt{2}}{8}\right],\left[\frac{\sqrt{:})}{:( }\right] \\
A n s 2=\left[\sin (A)=\frac{\sqrt{77}}{9}, \cos (A)=\frac{2}{9}, \tan (A)=\frac{\sqrt{77}}{2}, \csc (A)=\frac{9 \sqrt{77}}{77}, \sec (A)=\frac{9}{2}, \cot (A)=\frac{2 \sqrt{77}}{77}\right],\left[\frac{\sqrt{:)}}{:( }\right] \\
\text { Ans } 3=\left[\sin (A)=\frac{x}{\sqrt{x^{2}+25}}, \cos (A)=\frac{5}{\sqrt{x^{2}+25}}, \tan (A)=\frac{x}{5}, \csc (A)=\frac{\sqrt{x^{2}+25}}{x}, \sec (A)=\frac{\sqrt{x^{2}+25}}{5}, \cot (A)=\frac{5}{x}\right] \\
\text { Ans } 4=\left[\sin (A)=\frac{x}{4}, \cos (A)=\frac{\sqrt{16-x^{2}}}{4}, \tan (A)=\frac{x}{\sqrt{16-x^{2}}}, \csc (A)=\frac{4}{x}, \sec (A)=\frac{4}{\sqrt{16-x^{2}}}, \cot (A)=\frac{\sqrt{16-x^{2}}}{x}\right]
\end{gathered}
$$

$$
\text { Ans } 5=\left[\begin{array}{c}
\text { Ans. } 1=[y=\cos (\theta), 2 \pi, 1,[-1,1]] \\
\text { Ans. } 2=[y=-5 \sin (\theta), 2 \pi, 5,[-5,5]] \\
\text { Ans. } 3=\left[y=\sin (4 \theta), \frac{\pi}{2}, 1,[-1,1]\right] \\
\text { Ans. } 4=[y=-4 \cos (2 \theta), \pi, 4,[-4,4]] \\
\text { Ans. } 5=\left[y=-2 \cos \left(\frac{\theta}{6}\right), 12 \pi, 2,[-2,2]\right] \\
\text { Ans. } 6=\left[y=-\frac{1}{5} \sin (4 \theta)+4, \frac{\pi}{2}, \frac{1}{5},\left[\frac{19}{5}, \frac{21}{5}\right]\right] \\
\text { Ans. } 7=\left[y=-\frac{1}{5} \cos \left(\frac{\pi \theta}{2}\right), 4, \frac{1}{5},\left[\frac{-1}{5}, \frac{1}{5}\right]\right] \\
\text { Ans. } 8=[y=-3 \sin (2 \pi \theta)-1,1,3,[-4,2]]
\end{array}\right],
$$

$$
\text { Ans } \sigma=\left[\begin{array}{c}
{[y=-\cos (x)-1, \text { black }]} \\
{\left[y=-\frac{1}{2} \cos \left(\frac{x}{2}\right), \text { blue }\right]} \\
{[y=3 \sin (2 \pi x)+3 \text {, red }]} \\
{\left[y=3 \cos \left(\frac{x}{2}\right)+4 \text {, green }\right]}
\end{array}\right],\left[\begin{array}{c}
\frac{:( }{2} \\
\frac{:)}{:( } \\
\frac{:)}{:( } \\
\frac{:)}{:( } \\
\left.\frac{: 2}{2} \sin \left(\frac{\pi x}{3}\right), \text { cyan }\right]
\end{array}\right]
$$

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