Solve the equation: $|3 \sin 3 / 2 x|=1+6 x / 5 \pi$

Sketching on the same diagram the graphs of $y=\left|3 \sin \frac{3 x}{2}\right|$ and $y=1+\frac{6 x}{\pi}$
$\left|\sin \frac{3 x}{2}\right|=1+\frac{6 x}{\pi}$
The graph of the function $y=\sin x$


The amplitude $y=3 \sin \frac{3 x}{2}$ is 3
The period $y=3 \sin \frac{3 x}{2}$ is
$\frac{2 \pi}{\frac{3}{2}}=\frac{4 \pi}{3}$

The graph of the function $y=3 \sin \frac{3 x}{2}$


The graphs of the functions $y=\left|3 \sin \frac{3 x}{2}\right|$ and $y=1+\frac{6 x}{\pi}$


So for $0<x<2$ there are 2 solutions

