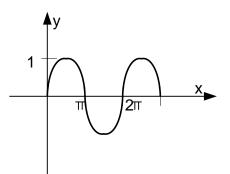
Solve the equation: $|3 \sin 3/2 x| = 1 + 6x/5\pi$

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

$$\left|\sin\frac{3x}{2}\right| = 1 + \frac{6x}{\pi}$$

The graph of the function y = sinx

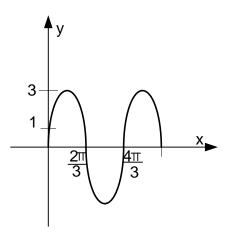


The amplitude $y = 3sin\frac{3x}{2}$ is 3

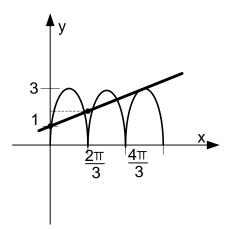
The period $y = 3sin\frac{3x}{2}$ is

$$\frac{2\pi}{\frac{3}{2}} = \frac{4\pi}{3}$$

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



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



So for 0 < x < 2 there are 2 solutions