

You seem to have confused the roles of  $a$  and  $b$ . The amplitude of  $y = 4\sin 3x$  is 4, while the amplitude of the graph is 3. The period of  $y = 4\sin 3x$  is  $\frac{2\pi}{3}$ , while the period of the function in the graph is  $\frac{\pi}{2}$ .