When $x = 0$:

$y = a\sin bx = a\sin(b \cdot 0) = a\sin 0 = a \cdot 0 = 0$, and

$y = a\cos bx = a\cos(b \cdot 0) = a\cos 0 = a \cdot 1 = a \neq 0$

So the graph of $y = a\sin bx$ must pass through $(0, 0)$ and the graph of $y = a\cos bx$ will not pass through $(0, 0)$, regardless of the values of *a* and *b*.