

$$y = 4x$$

$$y = x^2$$

$$y = 0.3\sin(4x)$$


A graph showing three functions plotted on a Cartesian coordinate system. The x-axis and y-axis are shown as black lines with arrows at their ends. The function  $y = 4x$  is a straight red line passing through the origin with a positive slope. The function  $y = x^2$  is a blue parabola opening upwards with its vertex at the origin. The function  $y = 0.3\sin(4x)$  is a cyan sine wave oscillating around the x-axis, passing through the origin. The sine wave has a period of  $\pi/2$  and an amplitude of 0.3. The three functions intersect at the origin (0,0).