$y' = 2x\sin(x^2)$, $y(0) = 3$

Integrate:

$$y = \int 2x\sin(x^2)\,dx = -\cos(x^2) + C$$

Apply initial value:

$$y(0) = -\cos(0) + C = 3$$

$$-1 + C = 3$$

$$C = 4$$

So, $\boxed{y = -\cos(x^2) + 4}$