$$f(t) = \sum_{n=0}^{\infty} \frac{f^{(n)}(t)}{n!} \cdot f^{(n)}(t) = 12\cos(40t)$$

$$0 \quad 12\cos(40t) \quad 12 \quad f^{(n)}(t) = 12\cos(40t)$$

$$1 \quad -12\cos(40t) \quad 0 \quad f^{(n)}(t) = 12$$

$$1 \quad -12\cos(40t) \quad 0 \quad f^{(n)}(t) = 12$$

$$2 \quad -12\cos(40t) \quad -12\cos(40t) \quad 0 \quad f^{(n)}(t) = -12\cos(40t)$$

$$3 \quad 12\cos(40t) \quad 12\cos(40t) \quad 12\cos(40t)$$

$$4 \quad 13\cos(40t) \quad 12\cos(40t) \quad 0 \quad f^{(n)}(t) = 0$$

$$4 \quad 13\cos(40t) \quad -12\cos(40t) \quad 0 \quad f^{(n)}(t) = 0$$

$$5 \quad -12\cos(40t) \quad -12\cos(40t) \quad 0 \quad f^{(n)}(t) = -12\cos(40t)$$

$$6 \quad -12\cos(40t) \quad -12\cos(40t) \quad -12\cos(40t)$$

$$6 \quad -12$$