$$\frac{d}{dx}\cos(x) = -\frac{x}{1!} + \frac{x^3}{3!} + \frac{x^5}{5!} + \cdots$$
we see that $\frac{x}{1!} = \frac{x}{1!} = x$ and
$$= -\left(x - \frac{x^3}{3!} + \frac{x^5}{5!} + \cdots\right)$$

which is
$$\frac{d}{dx}\cos(x) = -\sin(x)$$