Exercise 1 *Let f be a function such that*

$$f(0) = -1, \quad f(4) = 3, \quad f'(0) = 5, \quad and \quad f'(4) = -6.$$

Find the following values or input CBD *if the value cannot be determined.*

$$\left[\frac{d}{dx} \left(5f(x) \right) \right]_{x=4} = \boxed{-30}$$

$$\left[\frac{d}{dx} \left(f(x) - e^x + \sin 4 \right) \right]_{x=0} = \boxed{4}$$

$$\left[\frac{d}{dx} \left(2f(x) + e + \sin x \right) \right]_{x=0} = \boxed{11}$$

$$\left[\frac{d}{dx} \left(\pi f(x) + \sqrt{7}\sqrt{x} \right) \right]_{x=4} = \boxed{-6\pi + \frac{\sqrt{7}}{4}}$$