

**Samples**                      **Derivatives SOLUTIONS**

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**1.**  $y = -7 \sin x - \cos x$ , so

$$\begin{aligned}y' &= -7 \cos x - 1 \times (-\sin x) \\&= -7 \cos x + \sin x\end{aligned}$$

**2.**  $y = -7 \cos x$ , so

$$\begin{aligned}y' &= -7 \times (-\sin x) \\&= 7 \sin x\end{aligned}$$

**3.**  $y = 5 \sin x$ , so

$$y' = 5 \cos x$$