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$$\begin{aligned}
 1) \quad I &= \int_0^{\frac{\pi}{2}} \sin(2x) \, dx \\
 &= -\frac{1}{2} \cos(2x) \Big|_0^{\frac{\pi}{2}} \\
 &= -\frac{1}{2} [\cos(2\pi) - \cos(0)] \\
 &= -\frac{1}{2} \cdot 0 = \boxed{0}
 \end{aligned}$$

Writing here is certainly not a horrible experience. I could imagine worse experiences for sure. However, it is not Apple Note quality. That is what I am used to, so I do not really like this. It is something - that is for sure. The writing is tolerable. The maths... less so. That part is not good and it does not seem to be worth paying for really. I am not sure though. I am not a fan. Nothing personal of course. Just does not seem to be my thing currently.

$$\begin{aligned}
 2) \quad &\int_0^{\frac{\pi}{2}} \cos(2x) \, dx \\
 &= \frac{1}{2} \sin(2x) \Big|_0^{\frac{\pi}{2}} \\
 &= \frac{1}{2} [\sin(2\pi) - \sin(0)] \\
 &= \frac{1}{2} \cdot 0 = \boxed{0}
 \end{aligned}$$