

12.18 a

tisdag 20 december 2022

17:21

$$\int \overset{\uparrow}{e^x} \underset{\downarrow}{\sin x} dx = e^x \sin x - \int \overset{\uparrow}{e^x} \underset{\downarrow}{\cos x} dx = e^x \sin x - (e^x \cos x + \int e^x \sin x dx) = e^x \sin x - e^x \cos x - \int e^x \sin x dx$$

$$2 \int e^x \sin x dx = e^x \sin x - e^x \cos x + C_0$$

$$\text{Sv: } \int e^x \sin x dx = \frac{1}{2} e^x (\sin x - \cos x) + C_1$$

$\Downarrow$   
 $\frac{C_0}{2}$