1 | cooling pizza

Compute

$$\int_{0}^{5} -110e^{-0.4t}dt$$

to the nearest degree.

$$\int -110e^{-0.4t}dt = \frac{-110}{-0.4}e^{-0.4t} = 275e^{-0.4t}$$

Using the net change theorem,

$$\int_0^5 -110e^{-0.4t}dt = \int -110e^{-0.4(5)}dt - \int -110e^{-0.4(0)}dt$$
$$= 275e^{-0.4(5)} - 275e^0$$

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