

$$108c) \quad f(x) = ?$$

$$f(x) = e^x$$

$x$   $y$   
 $(0, \frac{1}{2})$

$$F(x) = e^x + C, \quad C \in \mathbb{R}$$

$$y = e^x + C$$

$$\frac{1}{2} = e^0 + C$$

$$\frac{1}{2} = 1 + C$$

$$\frac{1}{2} - 1 = C$$

$$-\frac{1}{2} = C$$

$$C = -\frac{1}{2}$$

$$\underline{\underline{F(x) = e^x - \frac{1}{2}}}$$

$$e^0 = 1$$