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כא

$$(1) \quad g(x+2y)[1+2y'] + e^{xy}[y+xy'] + \frac{2}{1} (y^2+2xyy') = 0$$
$$g\left(\frac{1}{2}\right)[1+2y'] + \frac{1}{2} + \frac{2}{1} \left(\frac{1}{2}\right)^2 = 0 \quad \left(0, \frac{1}{2}\right) \quad \text{רצף}$$
$$-1-2y' + \frac{1}{2} + \frac{1}{2} = 0$$

$$\boxed{y' = \frac{1-1}{2}}$$

$$(2) \quad \sqrt{1-y} \text{ מילולית } \int \frac{2}{1-y} = \frac{-1}{y'} \quad \text{לכן } \int \frac{2}{1-y} \text{ מילולית}$$
$$y - \frac{1}{2} = \frac{2}{1-y} (x-0) \quad \rightarrow \quad \boxed{y = \frac{2x}{1-y} + \frac{1}{2}}$$