$\int \frac{u'}{u} = \int ax$

V = - exp(-x2) + Cv $y = u \cdot v = e \times p(x^2) \cdot \left[-e \times p(-x^2) + c_v \right] =$ $= -1 + c_v e \times p(x^2) = c_v e \times p(x^2) - 1$ Applying the boundary condition: $y(0) = c_v \cdot e \times p(0) - 1 = 1 = >$ $\Rightarrow c_{v} - 1 = 1 \Rightarrow c_{v} = 2$ We conclude that: $f(x) = 2 \exp(x^2) - 1$ (which clearly satisfy the given equation and boundary cond.)

back: 17 (II):

for $V = -\exp(-x^2)$

 $v' \cdot e \times p(x^2) = 2 \times$

 $V' = [-e \times p(-x^2)] \cdot [-2 \times] = 2 \times e \times p(-x^2)$

Substituting u

 $e \times p(x^2) v' = 2 \times$