(B)
$$R = (0,1) \times (0,2)$$
, $\int \int [x+2y] dxdy = \int \int [x+2y] dxdy$

$$= \int \left(\frac{1}{3}(x+2y)^{\frac{3}{2}}\right) \int dy = \frac{2}{3} \int (1+1y)^{\frac{3}{2}} - (1y)^{\frac{3}{2}} dy = \frac{2}{3} \left(\frac{1}{3}(1+2y)^{\frac{3}{2}} - \frac{1}{3}(2y)^{\frac{3}{2}}\right)$$

$$= \frac{2}{15} \left(5^{1/5} - 4^{1/5} - 1\right) = 3.055$$





