For the integral

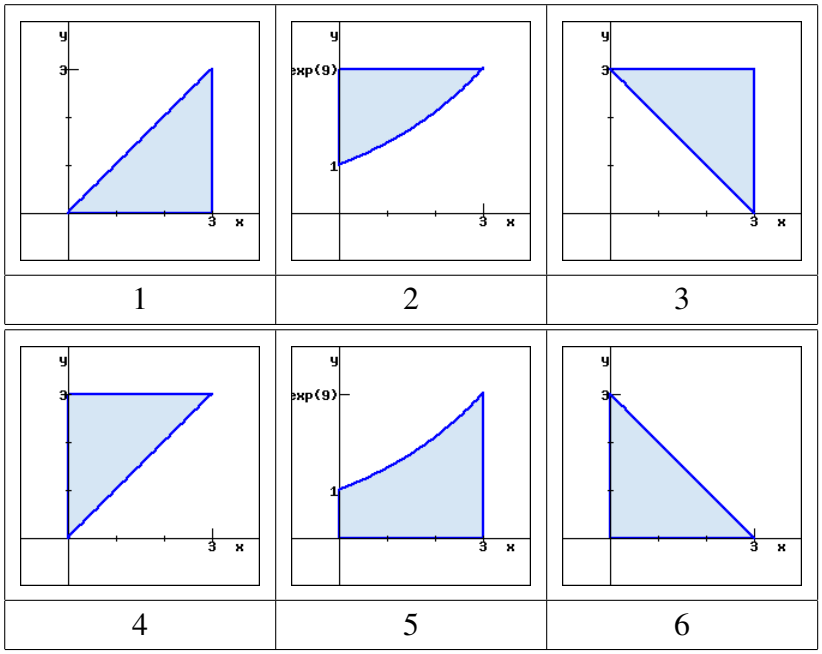
$$\int_0^3 \int_0^x e^{x^2}\, dy\, dx,$$

sketch the region of integration and evaluate the integral. Your sketch should be approximately the same as one of the graphs shown below; which is the correct region?

Graph [?]

Then $\int_0^3 \int_0^x e^{x^2}\, dy\, dx =$ [ ]

Note: the value of the integral needs to be correct to two decimal places.



1	2	3
4	5	6

For the integral

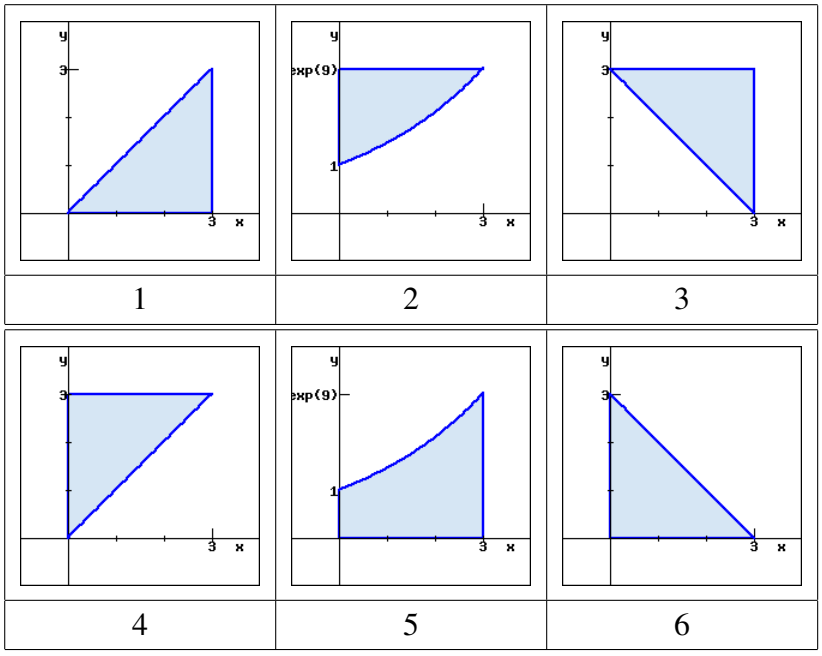
$$\int_0^3 \int_0^x e^{x^2}\, dy\, dx,$$

sketch the region of integration and evaluate the integral. Your sketch should be approximately the same as one of the graphs shown below; which is the correct region?

Graph [1]

Then $\int_0^3 \int_0^x e^{x^2}\, dy\, dx =$ [$(e^9 - 1)/2$]

Note: the value of the integral needs to be correct to two decimal places.



1	2	3
4	5	6