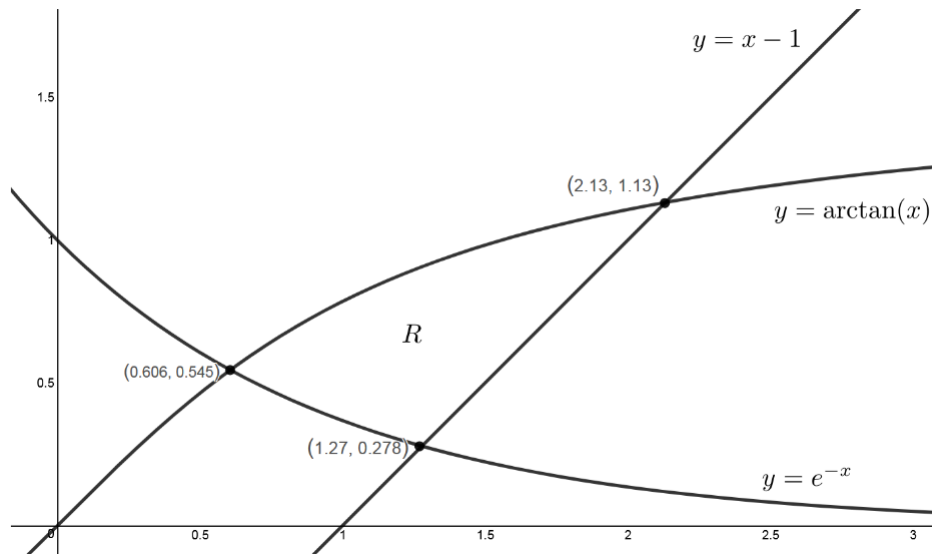


Due by 27 September for timely completion credit

1. Consider $\iint_R f(x, y) dA$, where R is the region bounded by curves as in the following picture:



Set up, but **do not evaluate** the double integral as **both** a $dx dy$ and as a $dy dx$ integral.

2. Consider the following double integral: $\int_0^1 \int_{\sqrt{x}-1}^{1-x} f(x, y) dy dx$. Draw the region in the xy -plane being integrated over. For full credit, label all bounding curves and intersection points between those curves. Then, set up, **but do not evaluate** the double integral as a $dx dy$ double integral.