Quiz 17 — MA16020 — April 4, 2018

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1. (4 points) Evaluate the double integral $\int_{\pi/2}^{\pi} \int_{-1}^{1} x^2 \cos(y)\, dxdy$.

2. Do NOT solve the double integral $\int_{0}^{3/2} \int_{4y}^{6} e^{x^2}\, dxdy$.

   (a) (2 points) Sketch the region for the double integral. Make sure to give a scale, either by marking the axes or by labeling points.

   (b) (4 points) Use your sketch to change the order of integration.