Math for Data Analytics: Activity

QBS 103

August 27, 2024

Activity   These are 2 practice problems from a BC calculus test. Typeset the expressions and then use R to solve the problems.

```
knitr::include_graphics("Practice1.png")
```

5. $\int_0^{\frac{\pi}{2}} \sin^5 x \cos x \, dx =$

(A) $\dfrac{1}{6}$ (B) $-\dfrac{1}{6}$ (C) 0   (D) –6   (E) 6

```
knitr::include_graphics("Practice2.png")
```

40. $\int_0^4 \dfrac{dx}{\sqrt{9+x^2}} =$

(A) ln3   (B) ln4   (C) –ln2   (D) –ln4   (E) Undefined