

MTH 263 Practice Test #2 - Answers
 SPRING 1999

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Name _____

1.

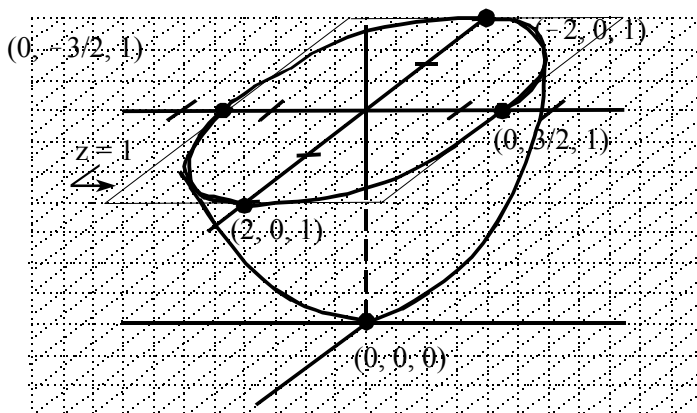
$$\begin{aligned}x &= 3 - t \\y &= -7 + 8t \\z &= 4 - 2t\end{aligned}$$

2.

$$5(x - 4) + 5(y - 2) + 3(z - 1) = 0$$

$$\text{or } 5x + 5y + 3z = 33$$

3. ~



4. $\frac{13}{6}$

5. Our integral is

$$\int_{y=0}^{y=1} \int_{x=y^2}^{x=y^{\frac{1}{3}}} y \, dx \, dy = \frac{5}{28}$$