## MATH 251: Practice 25

July 14, 2015

Name:
Use the Divergence Theorem to compute the flux of the vector field

$$
\vec{F}=\left\langle x^{2} y+\sin (y z), x y z+3 z, e^{y}+z^{2}\right\rangle
$$

out of the rectangular prism $0 \leq x \leq 2,1 \leq y \leq 3,0 \leq z \leq 3$.

