

200 CAS HW #8 Notes

There is a divergence command that can be used for this problem:

```
syms x y z
F(x,y,z)=[x^2*cos(y*z), sin(y*z)-x*y*z+3, z^4+x^2*y^3];
div=divergence(F,[x,y,z])
```

$$\text{div}(x, y, z) = 2x \cos(yz) - xz + z \cos(yz) + 4z^3$$