

$$1 \quad \left(\begin{aligned} &yz \cos(xyz) - x^2 y^2 z^2 \sin(xyz) , \\ &xz \cos(xyz) - x^2 y z^2 \sin(xyz) , \\ &xy \cos(xyz) - x^2 y^2 z \sin(xyz) \end{aligned} \right)$$

2

$$1/3$$

3

$$4\pi/5$$

4

$$-2\pi^2$$

5

$$\pi/\sqrt{6}$$
