

1

2

$$\left(xyz \cos(xyz) + \sin(xyz), x^2 z \cos(xyz), x^2 y \cos(xyz) \right)$$

3

$$\frac{1}{3}$$

4

$$6\pi^2$$

5

$$\frac{19\pi}{5}$$

6

$$\pi\sqrt{3}$$

1

2

$$(y^2 z \cos(xyz), xyz \cos(xyz) + \sin(xyz), xy^2 \cos(xyz))$$

3

$$1$$

4

$$2\pi^2$$

5

$$21\pi/5$$

6

$$\pi\sqrt{3}$$

1

2

$$\left(-y^2 z \sin(xyz), -xyz \sin(xyz) + \cos(xyz), -xy^2 \sin(xyz) \right)$$

3

$$-1/3$$

4

$$4\pi^2$$

5

$$6\pi/5$$

6

$$\pi\sqrt{6}$$

1

2

$$\left(-yz^2 \sin(xyz), -xz^2 \sin(xyz), \cos(xyz) - xyz \sin(xyz) \right)$$

3

1

4

$$-2\pi^2$$

5

$$4\pi/5$$

6

$$\pi\sqrt{6}$$
