

Print your name: _____

Score

1. Use Stokes' Theorem to evaluate

$$\int_C \langle yz + 3xz, 5x + z + xz, 6 + xy + e^{xyz} \rangle \cdot d\mathbf{x},$$

where C is the circle at the intersection of the cylinder $x^2 + y^2 = 4$ and the plane $z = 14$, oriented in the counterclockwise direction when looking down from above.