

Quiz 5b Calculus 3 11/12/2008

Each problem is worth 5 points. Clear and complete justification is required for full credit.

$$\text{Let } \mathbf{A}(x, y, z) = \left\langle \frac{x}{x^2 + y^2}, \frac{y}{x^2 + y^2}, 0 \right\rangle.$$

1. Compute $\text{div } \mathbf{A}$.

2. Compute $\text{curl } \mathbf{A}$.