## Quiz $6 \quad$ Calculus $3 \quad$ 11/18/2011

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

1. Compute the curl of the vector field $\mathbf{F}(x, y, z)=\left\langle x^{2} y, x^{2} z, x^{3}\right\rangle$.
2. Compute the divergence of the vector field $\mathbf{F}(x, y, z)=\left\langle x^{2} y, x^{2} z, x^{3}\right\rangle$.
