Name: $\qquad$ Quiz Score: /20

## Quiz 8: Friday, April 3, 2015

No calculators.

1. (6 pts) Let $z=\frac{1}{2}-\frac{1}{3} i$. Find $\frac{1}{z}$, writing it in standard form, simplified.
2. (7 pts) Write $z=3-3 \sqrt{3} i$ in polar form, using the principal value of the argument.
3. (7 pts) Write $z=\sqrt{2}\left(\cos \frac{13 \pi}{4}+i \sin \frac{13 \pi}{4}\right)$ in standard form, simplified.
