

MECH 6325 HW4

3) b) $\bar{r} = \sigma \sqrt{\frac{\pi}{2}}$

$$E[(r - \bar{r})^2] = \frac{4 - \pi}{2} \sigma^2$$

c) $\text{med}(f_R(r)) = \sigma \sqrt{2 \ln(2)}$

$$\text{mode}(f_R(r)) = 0$$