Durham University
MATH1541 Statistics
Exercise Sheet 15

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1 Q1

1.1 a) b)

$H_0 : \mu = 8.0$, $H_a : \mu \neq 8.0$

$p = \frac{8.6-8}{\frac{\sqrt{0.4}}{\sqrt{6}}} = 2.3237$

$\alpha = 5\%$, CV $= \pm 1.9600$, thus reject H_0

$\alpha = 1\%$, CV $= \pm 2.5758$, thus fail to reject H_0

1.2 c)