Q1

1. $z \sim N(0,1)$

$z_{0.4} = -0.2533$

$z_{0.95} = 1.6449$

2. $t_{0.4}^{(5)} = -0.2672$

$t_{0.4}^{(10)} = -0.2602$

$t_{0.4}^{(40)} = -0.2550$

$t_{0.4}^{(120)} = -0.2539$

As the degrees of freedom approach infinity, the t-critical values become closer to $z \sim N(0,1)$ for $z_{0.4}$.

3. $F_{0.05}^{(2,4)} = 6.9443$

$F_{0.01}^{(1,6)} = 13.7450$