

Question Five

$$i) \quad 3^{(x+4)} = 7^x$$

$$(x+4)\log 3 = x \log 7$$

$$(x+4)0.477 = 0.845x$$

$$0.477x + 1.908 = 0.845x$$

$$1.908 = 0.845x - 0.477x$$

$$1.908 = 0.368x$$

$$\frac{1.908}{0.368} = x$$

$$x = 5.185$$