| 4. | The proportion of left-handed adults in a country is 10% Freya believes that the proportion of left-handed adults under the age of 25 in this country is different from 10% She takes a random sample of 40 adults under the age of 25 from this country to | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| | investigate her belief. | |
| | (a) Find the critical region for a suitable test to assess Freya's belief. You should state your hypotheses clearly use a 5% level of significance state the probability of rejection in each tail | (1) |
| | | (4) |
| | (b) Write down the actual significance level of your test in part (a) | (1) |
| | In Freya's sample 7 adults were left-handed. | |
| | (c) With reference to your answer in part (a) comment on Freya's belief. | (1) |