

2 Alex is comparing the cost of mobile phone contracts. Contract *A* has a set-up cost of £40 and then costs 4p per minute. Contract *B* has no set-up cost, does not charge for the first 100 minutes and then costs 6p per minute.

(a) Find an expression for the cost of each of the contracts in terms of m , where m is the number of minutes for which the phone is used and $m > 100$. **[2]**

(b) Hence find the value of m for which both contracts would cost the same. **[2]**