



**Q4** Given that  $a - b = 20$  and  $a^2 - b^2 = 480$ , find the value of  $3a + 3b$ . [2]

**Q5** If  $x - y = 2$  and  $x + y = -2$ , find the value of  $(x^2 - y^2)(x^2 + 2xy + y^2)$ . [2]

**Q6** Is it possible for the difference of two binomials to be a trinomial? Explain your answer. [2]

**Q7** Find three different values of  $b$  for which the expression  $x^2 + bx + 36$  can be factorised. Show your working clearly and explain how you arrive at your answers. [3]

**Bonus**

**Q8** Factorise  $x^2 - 2x + 1 - y^2$  completely [2]

**Q9** Factorise  $49x^2y^2 + 44xy + 9 - x^2 - y^2$  completely [2]