Simplifying Calculations Using Factorisation

1) Without using a calculator, find the value of:
(i) $41^2 - 39^2$ (ii) $68^2 - 32^2$ (iii) $24^2 - 23^2$ (iv) $5.5^2 - 4.5^2$ (v) $1001^2 - 999^2$

2) By factorising first, find the value of:
(i) $x^2 - 8x + 15$ when $x = 13$ (ii) $x^2 - 8x - 33$ when $x = 17$
(iii) $x^2 - 2x - 8$ when $x = 4.5$ (iv) $x^2 - 7x$ when $x = 17$
(v) $x^2 + 7x + 12$ when $x = 96$

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