

Factorising Quadratic Expressions

1) Factorise:

- | | | |
|----------------------|----------------------|----------------------|
| (a) $x^2 - 12x + 20$ | (b) $x^2 - 8x + 15$ | (c) $x^2 - 10x + 21$ |
| (d) $x^2 - 8x + 12$ | (e) $x^2 - 10x + 24$ | (f) $x^2 - 14x + 24$ |
| (g) $x^2 - 13x + 30$ | (h) $x^2 - 11x + 30$ | (i) $x^2 - 10x + 16$ |

2) Factorise:

- | | | |
|----------------------|----------------------|----------------------|
| (a) $x^2 - 8x - 20$ | (b) $x^2 + 8x - 20$ | (c) $x^2 - x - 20$ |
| (d) $x^2 + x - 20$ | (e) $x^2 - 10x - 24$ | (f) $x^2 + 10x - 24$ |
| (g) $x^2 - 13x - 30$ | (h) $x^2 - 7x - 30$ | (i) $x^2 + 7x - 30$ |

3) Factorise:

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|----------------------|----------------------|----------------------|
| (a) $x^2 + 9x + 20$ | (b) $x^2 + 12x + 20$ | (c) $x^2 + 7x + 12$ |
| (d) $x^2 + 13x + 12$ | (e) $x^2 + 11x + 30$ | (f) $x^2 + 17x + 30$ |
| (g) $x^2 + 13x + 30$ | (h) $x^2 + 13x + 36$ | (i) $x^2 + 8x + 16$ |

4) Factorise:

- | | | |
|----------------------|---------------------|----------------------|
| (a) $x^2 - 7x + 12$ | (b) $x^2 - x - 12$ | (c) $x^2 + 8x + 12$ |
| (d) $x^2 - 13x + 12$ | (e) $x^2 + 4x - 12$ | (f) $x^2 - 11x - 12$ |
| (g) $x^2 + x - 12$ | (h) $x^2 - 4x - 12$ | (i) $x^2 + 11x - 12$ |

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