

(b) Expand  $5(x - 2)$ .



(b) Expand  $4(x - 3)$ .





15. (a) Expand  $2x(x^2 + 3)$ .

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[2]

(b) Expand and simplify  $4(3x - 1) + 3(x - 5)$ .

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[2]

(c) Expand and simplify  $3(4m + 1) - 4(2m + 3)$ .



Handwritten solution on lined paper:

$$3(4m + 1) - 4(2m + 3)$$
$$= 12m + 3 - 8m - 12$$
$$= 4m - 9$$

The student has written the above steps in pencil on the lined paper. There are also some faint, illegible markings and a large, faint watermark or drawing in the background.

(b) Expand and simplify:  $4(2y - 3) - 3(y + 5)$



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[2]

(b) Expand and simplify:  $4(2y - 3) - 3(y + 5)$



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8. (a) Expand  $6(x - 5)$ .

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[1]

(b) Factorise  $4a + 6$ .

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[1]


(c) Factorise  $x^2 + 4x$ .

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[1]

(b) Expand and simplify

  
 $(x + 5)(x - 6).$



(b) Expand the following expression, simplifying your answer as far as possible.

$$(x + 7)(x - 3)$$



**20. Factorise**

(a)  $3xy^2 - 6xy,$

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[2]



(b)  $x^2 + 2x - 8.$

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[2]

22. Factorise

(a)  $4x^2y - 6xy^2$ ,



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[2]

(b)  $x^2 - 4x - 12$ .

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[2]

(b) Factorise  $x^2 + x - 20$ .



(b) Factorise  $x^2 + 2x - 35$ .



.....

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[2]

(b) Factorise  $3a^2 - 6ac$ .



[2]

19. (a) Expand the following expression, simplifying your answer as far as possible.

$$(x - 5)(x + 2)$$



[2]

- (b) Make  $n$  the subject of the formula

$$\sqrt{3n + 4p} = m$$

[3]

- (c) Factorise  $3x^2y + 6xy^2$ .

[2]

20. (a) Expand the following expression, simplifying your answer as far as possible.

$$(x - 3)(x - 4)$$



[2]

- (b) Make  $t$  the subject of the formula:

$$2n + 5 = 3(8 - 3t)$$

[3]

- (c) (i) Factorise  $x^2 + 7x - 18$ .

- (ii) Hence solve the equation

$$x^2 + 7x - 18 = 0.$$

[3]



20. (a) Expand the following expression, simplifying your answer as far as possible.

$$(x + 7)(x - 5)$$



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[2]

(b) Make  $n$  the subject of the formula

$$4(2n + x) = 6x - 5.$$

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[3]

(c) Factorise  $5xy - 15x^2$ .

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[2]