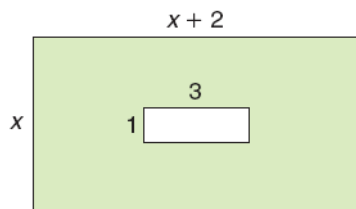


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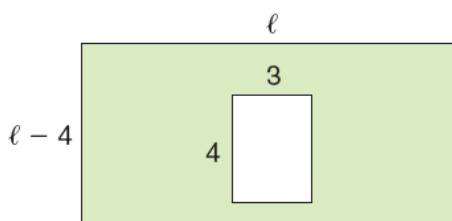
Factoring a Trinomial

Exercise 1: Find the area of the shaded region. Express the area in factored form.

1)



2)



Exercise 2: Factor.

1) $(x+2)^2 - 5(x+2) + 6$

2) $(x-3)^2 - 12(x-3) - 45$

3) $(2x-5)^2 + 7(2x-5) + 12$

4) $(x+1)^2 + 3(x+1) + 2$

Exercise 3: Factor each trinomial, if the trinomial cannot be factored write: "it is prime".

1) $4y^2 + 7y - 2$

2) $4y^2 - 17y - 15$

3) $6x^2 - 7x + 2$

4) $8t^2 + 2t - 3$

5) $9y^2 - 12y + 4$

6) $3t^2 - 8t - 3$

Exercise 4: The room that is shown in the figure below has a floor space of $2x^2 + x - 15$ square feet. If the width of the room is $(x + 3)$ feet, what is the length?

