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Area - Algebraic Expressions

Name

Score

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Solve and show all steps.

A square-shaped garden has a side length of (x+5) meters. What is the area of the garden in terms of x?	Show all steps here
A rectangular garden has a length of (x+4) meters and a width of (x+2) meters. What is the area of the garden in terms of x?	Show all steps here
A circular design on a T-shirt has a radius of (m^2+2) inches. Express the area of this design in terms of m.	Show all steps here
An engineer is calculating the surface area of a triangular support beam for a bridge. The base of the beam is (2n+4) meters and the height is (n^2−3) meters. Determine the area of this section of the beam.	Show all steps here
A craftsperson is cutting a triangular piece of wood for a project. The base of the wood piece is (5m−1) inches and its height is (2m−4) inches. What is the area of the wood piece?	Show all steps here

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Answer Key

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Solve and show all steps.

$x^2 + 10x + 25$ square meters

$x^2 + 6x + 8$ square meters

$(m^4 + 4m^2 + 4)\pi$ square inches

$n^3 + 2n^2 - 3n - 6$ square meters

$5m^2 - 11m + 2$ square meters