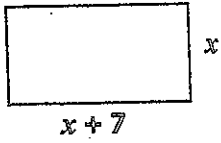


8-5 Homework Quadratic Equation Area Problems

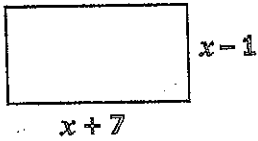
1 Given the diagram below, find the value of x if the area of the rectangle is 78 square meters.



2 Given the diagram below, find the dimensions of the rectangle if the area of the rectangle is 108 square meters.



3 Given the diagram below, find the dimensions of the rectangle if the area is 128 square feet.



4 The dimensions of a rectangle can be expressed as $x + 3$ and $x - 8$. If the area of the rectangle is 60 square inches, what is the value of x ?

5 The length of a rectangular garden is 4 meters more than its width. The area of the rectangle is 60 meters. Find the dimensions of the rectangle.

6 The length of a rectangle is 6 meters less than its width. Find the dimensions of the rectangle if its area is 27 square meters.