

1. In a certain rectangle, the length of the diagonal is $\sqrt{10}$ times the length of one of the shorter sides. The perimeter is 24 inches. Find the area A of the rectangle (in square inches).

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2. Find B such that

$$\sqrt{2A-5} + 4B = \sqrt{3A}.$$

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3. Find C such that

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4. Find D such that

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