**USER:**

Find the area of the parallelogram.

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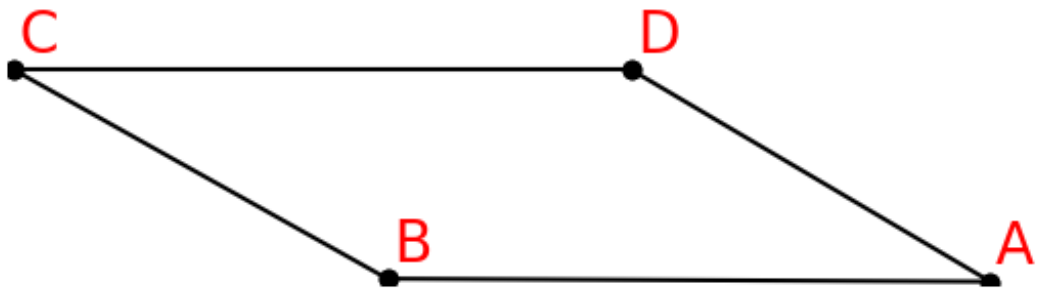
**USER:**

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**ASSISTANT:**

THOUGHT 0: We're asked to find the area of the parallelogram. We know from the logic statements that AB = 36 and AD = 22. From the diagram, it appears that AD is being used as the base, so we need the height corresponding to that base. Since BE is perpendicular to CD and E lies on line CD, BE serves as the height of the parallelogram.

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**ASSISTANT:**

THOUGHT 1: We'll draw the auxiliary line BE to make the height visually clear. This line drops from point B perpendicularly onto line CD at point E.

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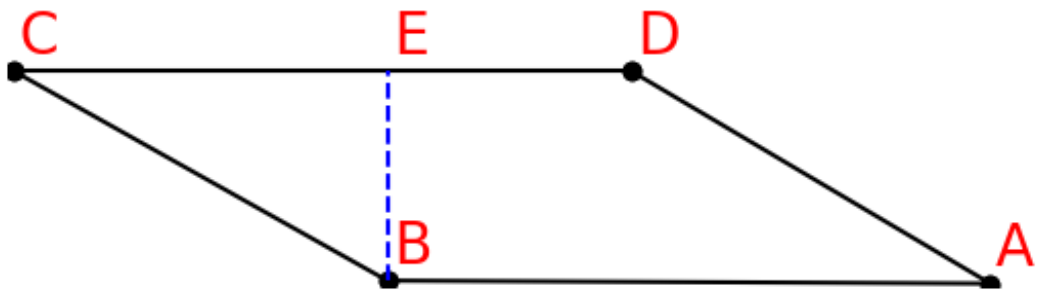
**ASSISTANT:**

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**ASSISTANT:**

THOUGHT 2: Now that BE is drawn, we can compute its length using the coordinates of points B and E. This gives us the height of the parallelogram. The base (AD) is already known to be 22 units.

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ASSISTANT:

THOUGHT 3: Using the formula for the area of a parallelogram (Area = base × height), we compute the result as 22 × 18 = 396.

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**ASSISTANT:**

ANSWER: The area of the parallelogram is approximately 396.00. TERMINATE

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