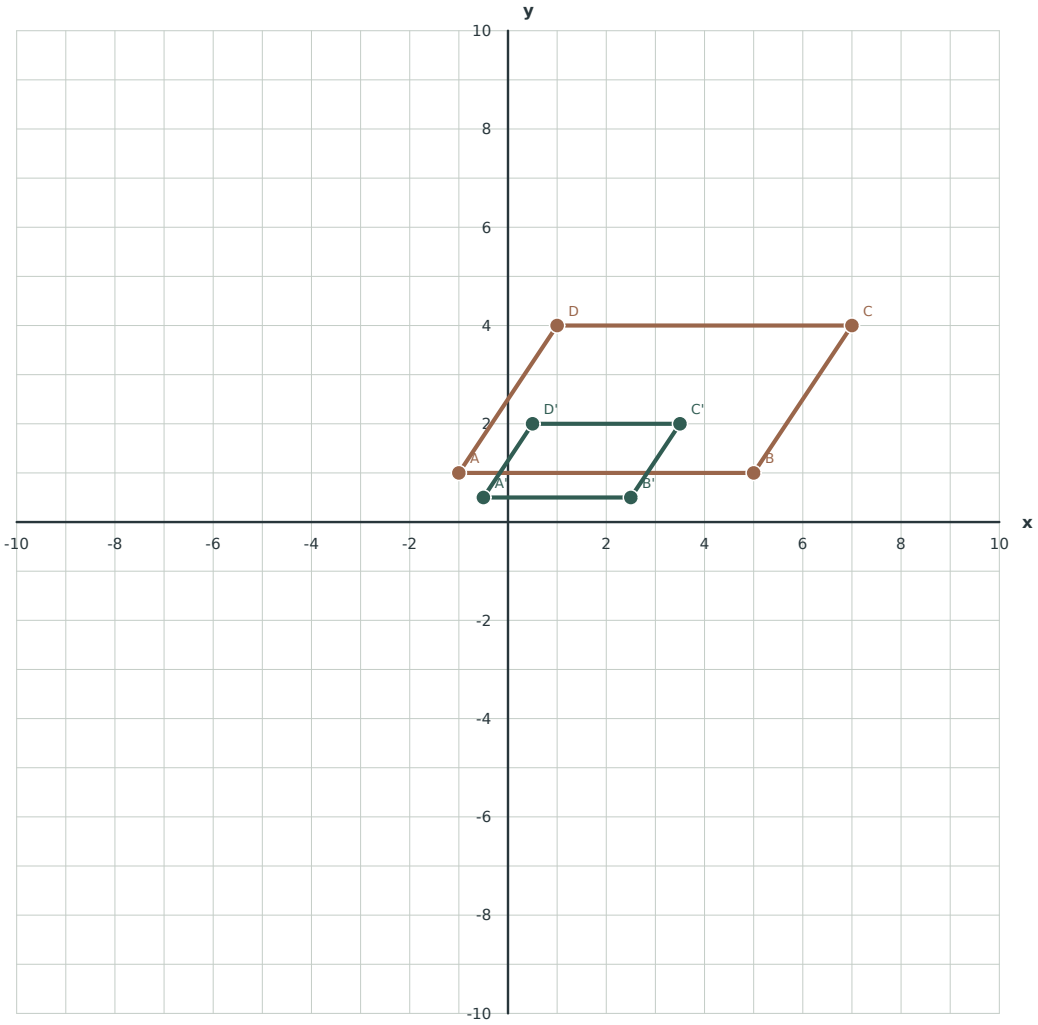
Half-size parallelogram

Vertices in order: A(-1, 1); B(5, 1); C(7, 4); D(1, 4).

Dilate about (0, 0) by scale factor 1/2. Draw and label the image. State the length and area ratios.

ANSWER / worked construction



Brown: original / Green: transformed image (answer only)

Dilate about (0, 0) by scale factor 1/2.

Image vertices: A(-1/2, 1/2); B(5/2, 1/2); C(7/2, 2); D(1/2, 2).

Length ratio = 1/2; area ratio = 1/4. Area: 18 to 9/2 square units.

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