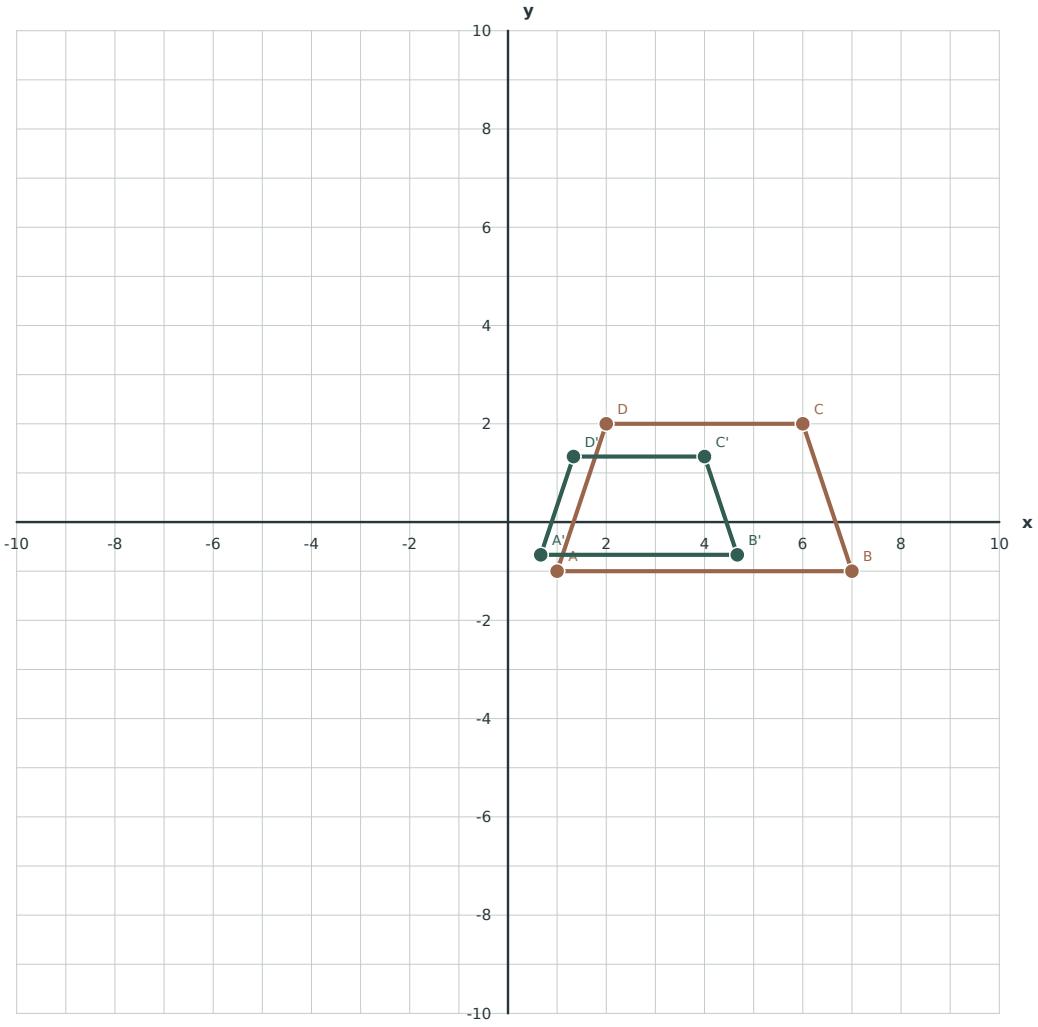
Two-thirds trapezoid

Vertices in order: A(1, -1); B(7, -1); C(6, 2); D(2, 2).

Dilate about (0, 0) by scale factor 2/3. 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 2/3.

Image vertices: A(2/3, -2/3); B(14/3, -2/3); C(4, 4/3); D(4/3, 4/3).

Length ratio = 2/3; area ratio = 4/9. Area: 15 to 20/3 square units.

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