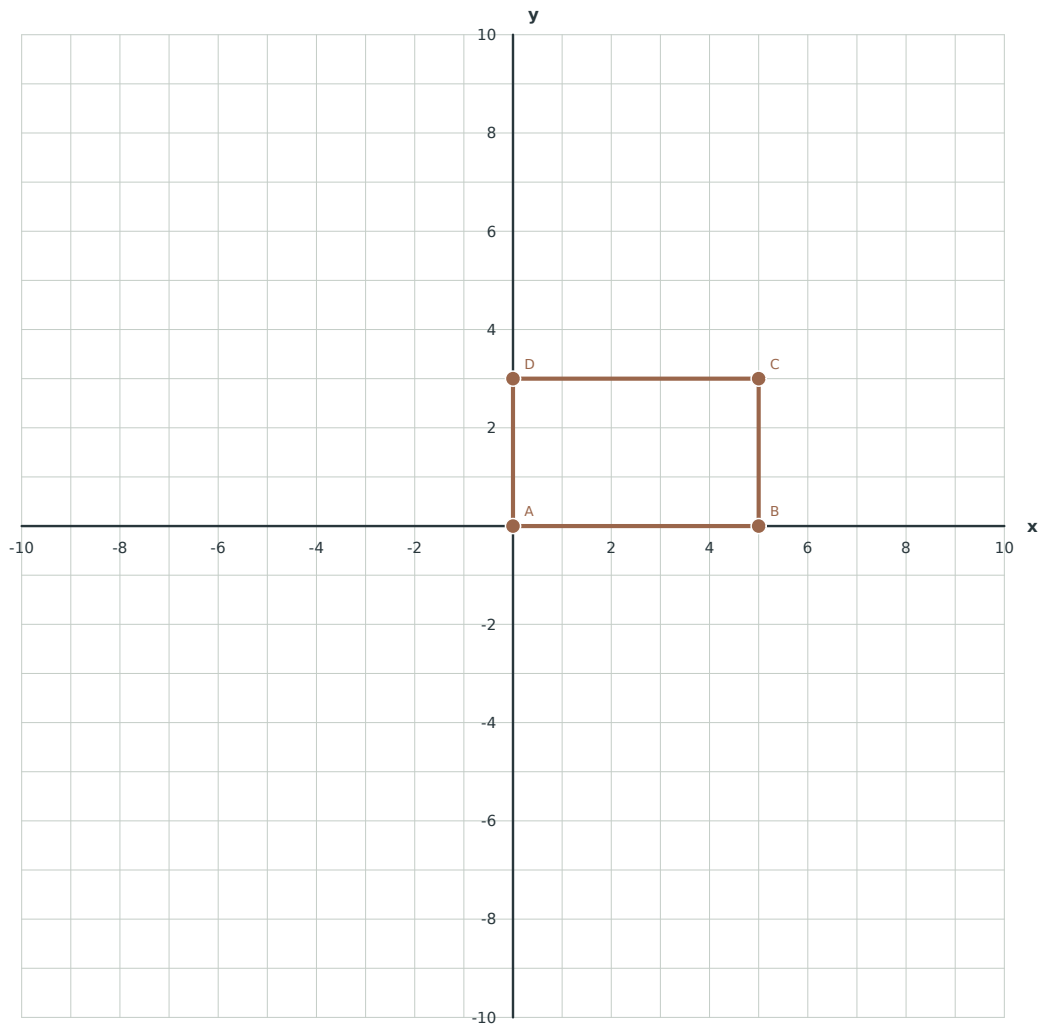


Quadrilateral case QU01

Vertices in order: A(0, 0); B(5, 0); C(5, 3); D(0, 3).

Plot and join the vertices. Classify using parallel or equal sides and calculate area. Here trapezoid means exactly one parallel pair.

ANSWER / worked construction



Classification: rectangle. Parallel opposite-side pairs: 2.

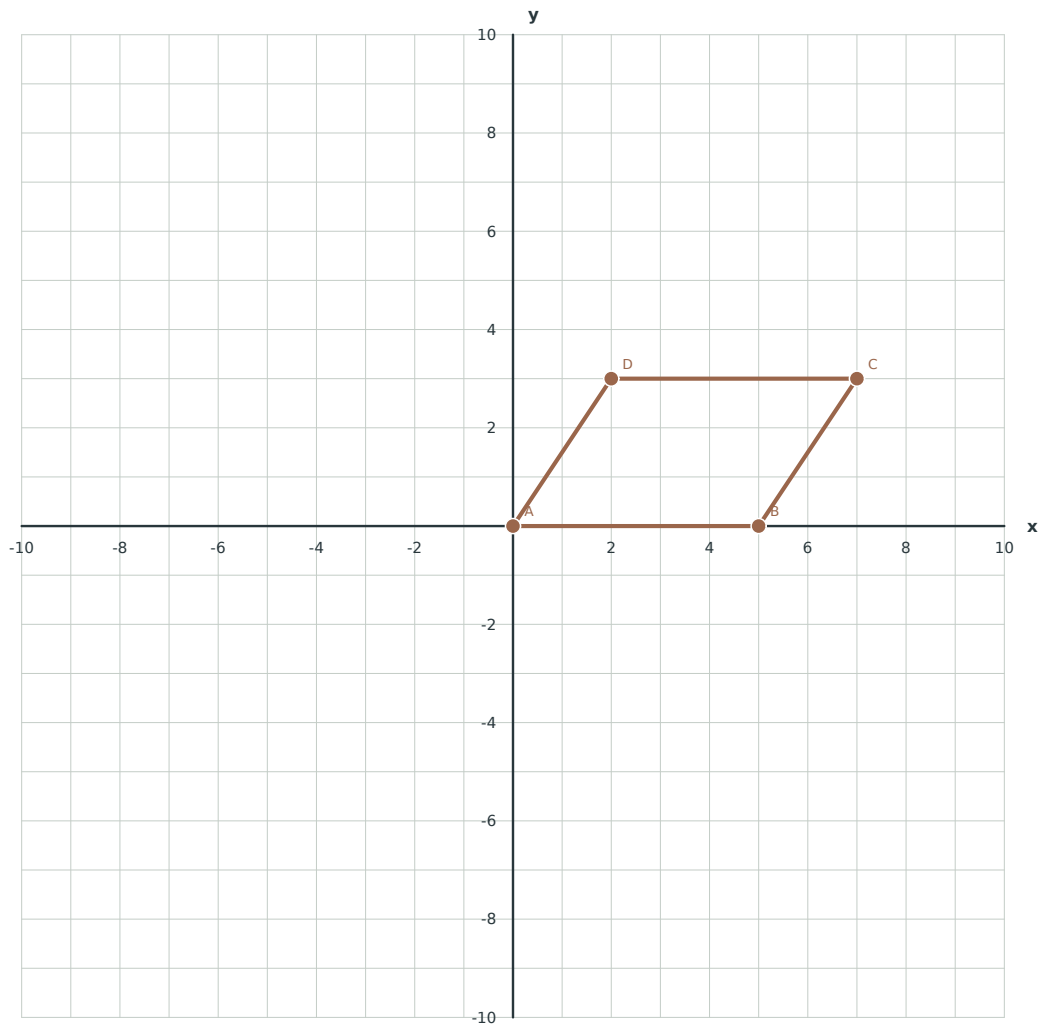
Squared side lengths: 25, 9, 25, 9. Area = 15 square units.

Quadrilateral case QU02

Vertices in order: A(0, 0); B(5, 0); C(7, 3); D(2, 3).

Plot and join the vertices. Classify using parallel or equal sides and calculate area. Here trapezoid means exactly one parallel pair.

ANSWER / worked construction



Classification: parallelogram. Parallel opposite-side pairs: 2.

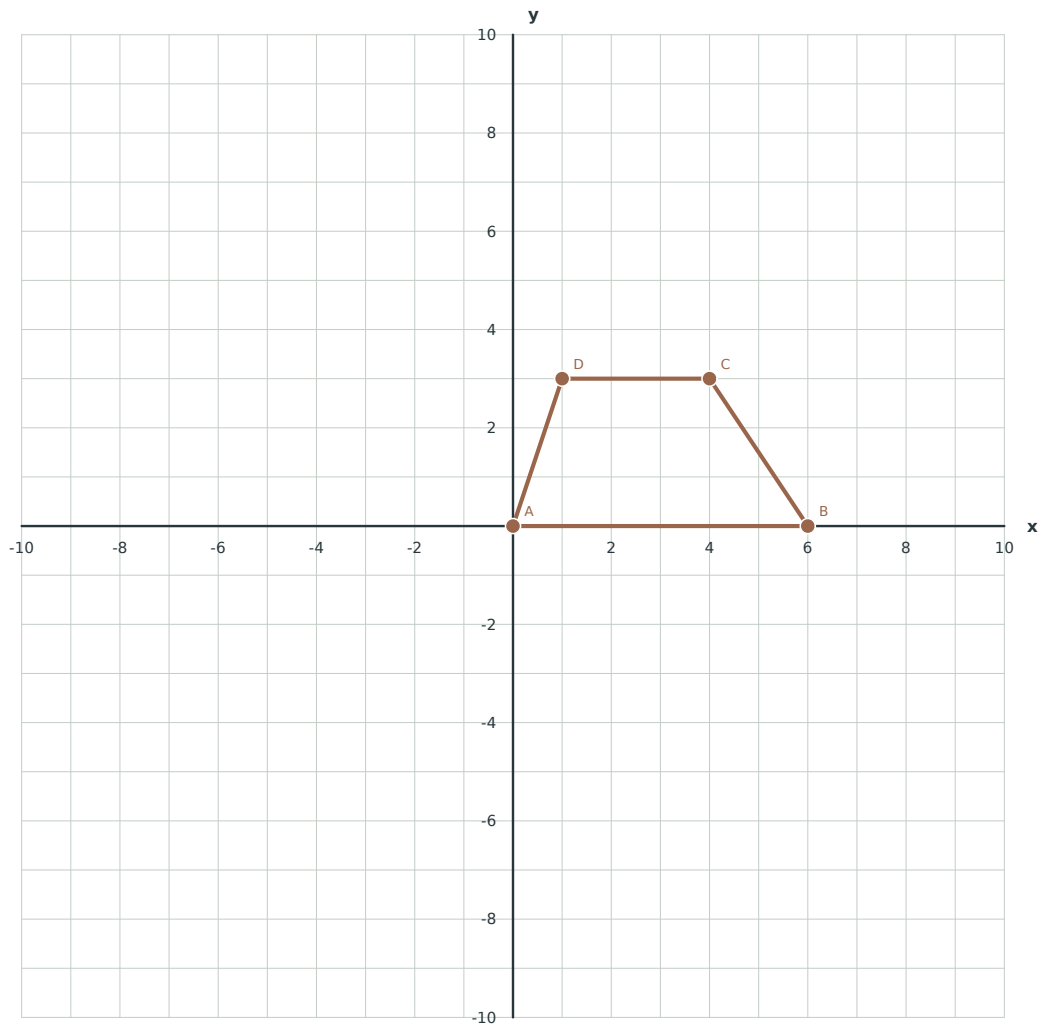
Squared side lengths: 25, 13, 25, 13. Area = 15 square units.

Quadrilateral case QU03

Vertices in order: A(0, 0); B(6, 0); C(4, 3); D(1, 3).

Plot and join the vertices. Classify using parallel or equal sides and calculate area. Here trapezoid means exactly one parallel pair.

ANSWER / worked construction



Classification: trapezoid. Parallel opposite-side pairs: 1.

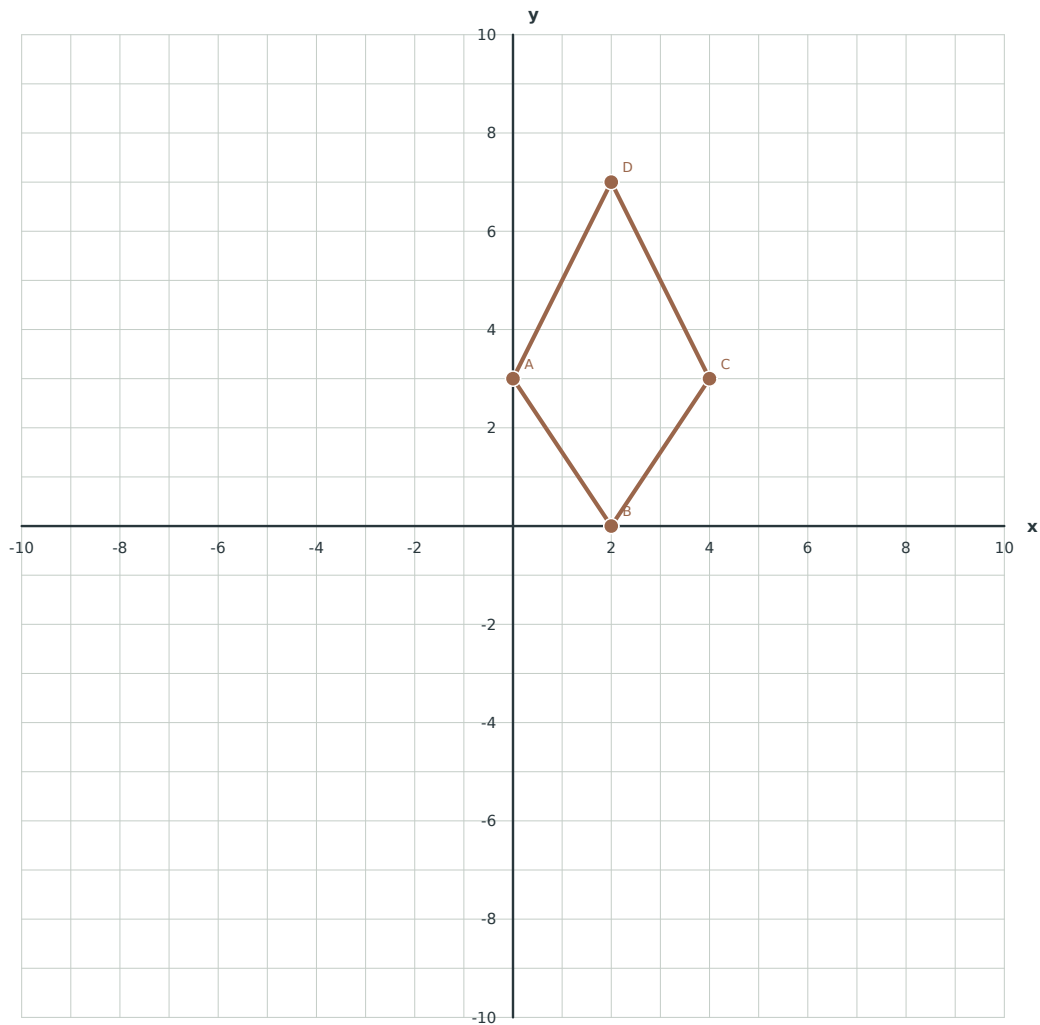
Squared side lengths: 36, 13, 9, 10. Area = $27\frac{1}{2}$ square units.

Quadrilateral case QU04

Vertices in order: A(0, 3); B(2, 0); C(4, 3); D(2, 7).

Plot and join the vertices. Classify using parallel or equal sides and calculate area. Here trapezoid means exactly one parallel pair.

ANSWER / worked construction



Classification: kite. Parallel opposite-side pairs: 0.

Squared side lengths: 13, 13, 20, 20. Area = 14 square units.