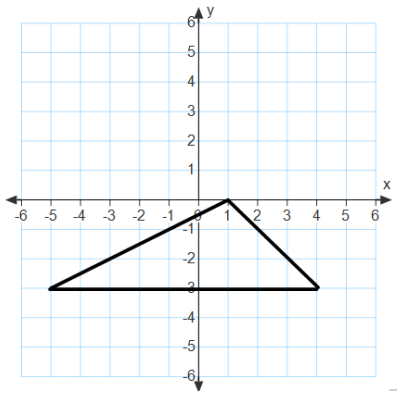
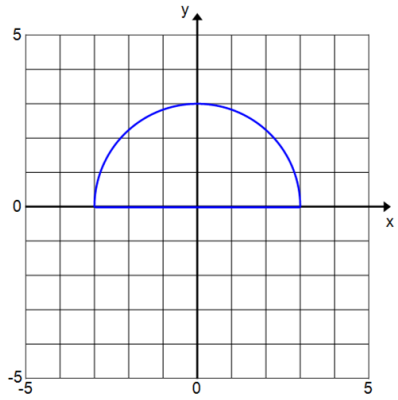
Problem Set

Find the area of each figure.

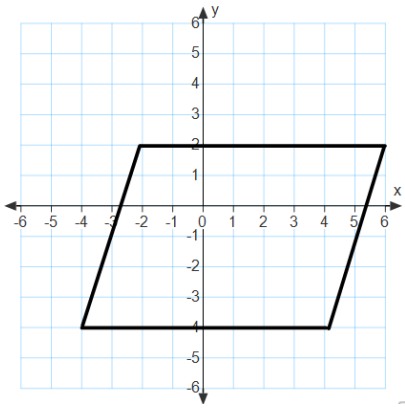
1.



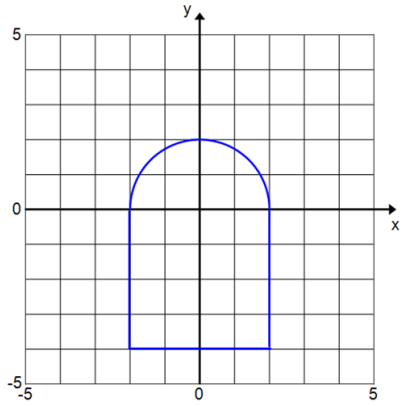
2.



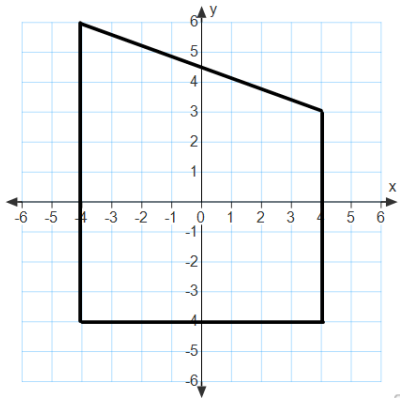
3.



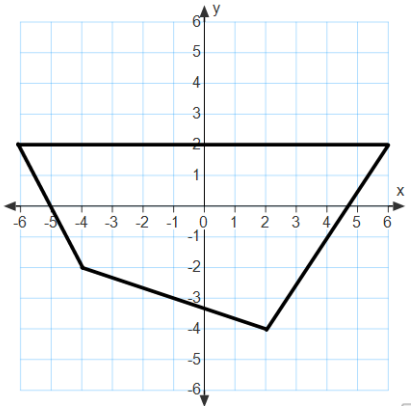
4.



5.

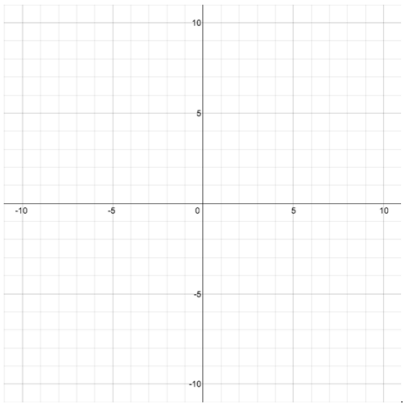


6.

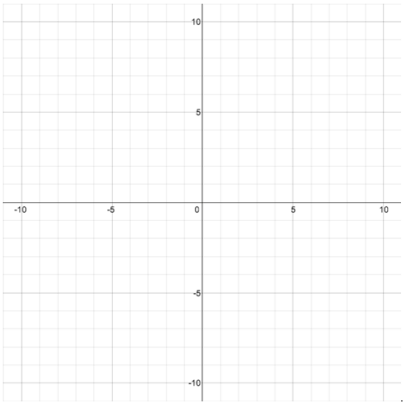


For Problems 7–9, draw a figure in the coordinate plane that matches each description.

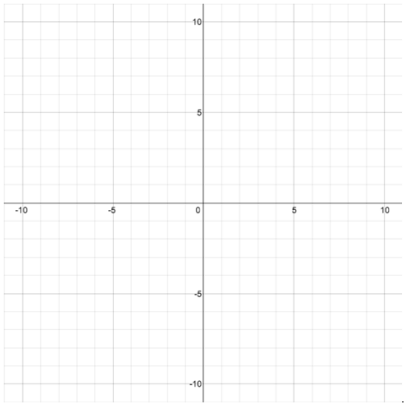
7. A rectangle with an area of 18 sq. units



8. A parallelogram with an area of 50 sq. units

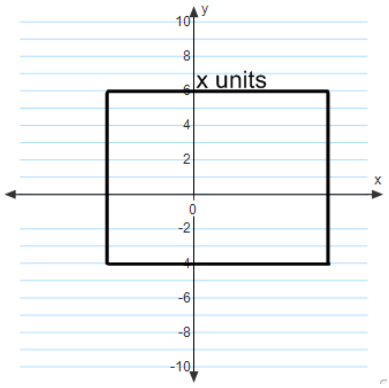


9. A triangle with an area of 25 sq. units

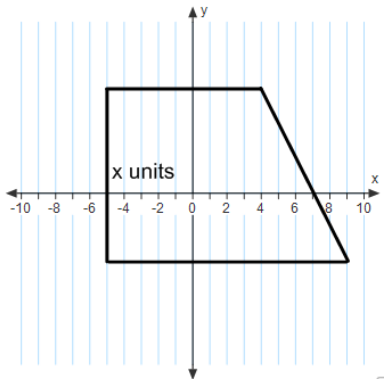


Find the unknown value labelled as x on each figure.

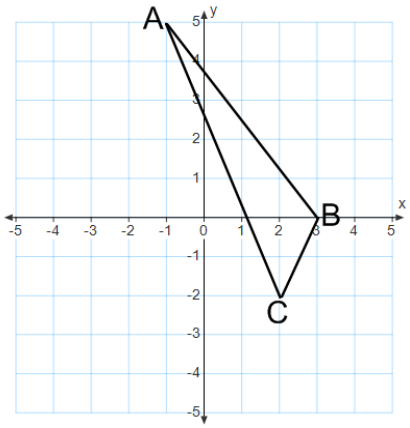
10. The rectangle has an area of 80 sq. units.



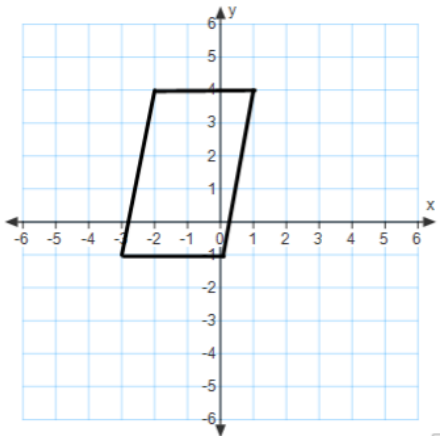
11. The trapezoid has an area of 115 sq. units.



12. Find the area of triangle ABC.



13. Find the area of the quadrilateral using two different methods. Describe the methods used, and explain why they result in the same area.



14. Find the area of the quadrilateral using two different methods. What are the advantages or disadvantages of each method?