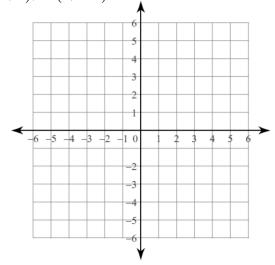
The vertices of quadrilateral ABCD are A(-3, -3), B(-1, 1), C(2, 0), D(0, -4).

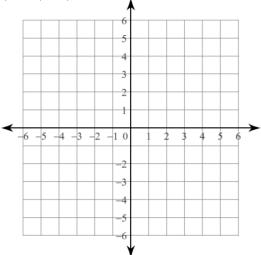
- 1. Graph quadrilateral ABCD.
- 2. Find the slope of \overline{AB} .
- 3. Find the slope of \overline{CD} .
- 4. Find the length of \overline{AB} .
- 5. Find the length of \overline{CD} .



6. Is quadrilateral *ABCD* a parallelogram? Use your work from problems 1–5 to justify your answer (explain why).

The vertices of quadrilateral ABCD are A(5,1), B(2,-3), C(-1,1), D(2,4).

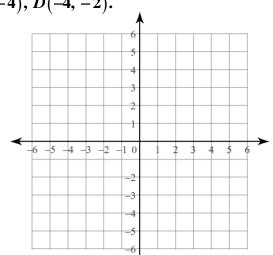
- 7. Graph quadrilateral *ABCD*.
- 8. Find the length of \overline{AB} .
- 9. Find the length of \overline{CD} .
- 10. Find the length of \overline{AD} .
- 11. Find the length of \overline{BC} .



12. Is quadrilateral *ABCD* a parallelogram? Use your work from problems 7–11 to justify your answer (explain why).

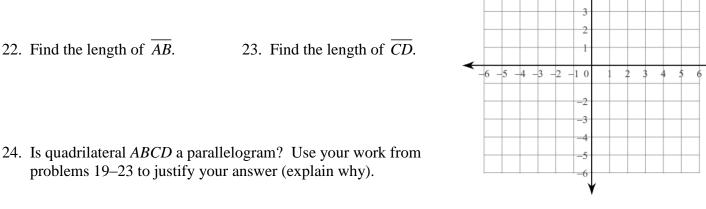
The vertices of quadrilateral ABCD are A(-3,4), B(4,3), C(3,-4), D(-4,-2).

- 13. Graph quadrilateral ABCD.
- 14. Find the slope of \overline{AB} .
- 15. Find the slope of \overline{CD} .
- 16. Find the slope of \overline{AD} .
- 17. Find the slope of \overline{BC} .
- 18. Is quadrilateral *ABCD* a parallelogram? Use your work from problems 13–17 to justify your answer (explain why).



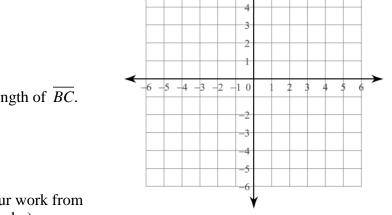
The vertices of quadrilateral ABCD are A(4,4), B(-3,1), C(-3,-4), D(4,-2).

- 19. Graph quadrilateral ABCD.
- 20. Find the slope of AB.
- 21. Find the slope of *CD*.
- 22. Find the length of AB.



The vertices of quadrilateral ABCD are A(-2, -1), B(1, 1), C(-2, 3), D(-5, 1).

- 25. Graph quadrilateral ABCD.
- 26. Find the length of *AB*.
- 27. Find the length of CD.
- 28. Find the length of *AD*.
- 29. Find the length of \overline{BC} .



30. Is quadrilateral ABCD a parallelogram? Use your work from problems 25–29 to justify your answer (explain why).

The vertices of quadrilateral ABCD are A(0,4), B(2,-2), C(-1,-3), D(-3,3).

- 31. Graph quadrilateral *ABCD*.
- 32. Find the slope of AB.
- 33. Find the slope of *CD*.
- 34. Find the slope of \overline{AD} .
- 35. Find the slope of BC.
- 36. Is quadrilateral *ABCD* a parallelogram? Use your work from problems 31–35 to justify your answer (explain why).

