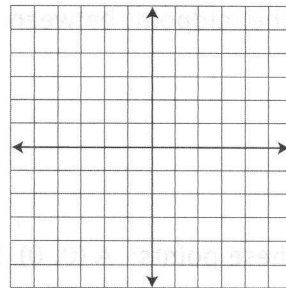


LESSON PRACTICE

Follow the directions.

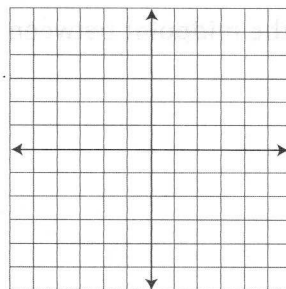
1. Write the distance formula.
2. Write the midpoint formula.
3. Plot these points: A (-2, 3), B (1, 5), C (3, -2), D (-1, -1), E (-4, -3).



4. Compute the distance between A and B.
5. Compute the distance between B and C.

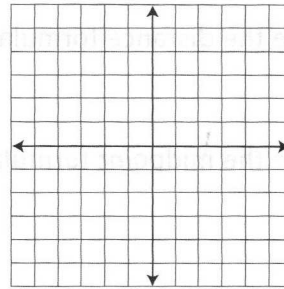
6. Compute the distance between D and E.

7. Plot these points: A (-4, 4), B (3, 2), C (5, -3), D (2, -3), E (-5, -2).



8. Compute the distance between A and B.
9. Compute the distance between B and C.
10. Compute the distance between D and E.

11. Plot these points: A (-6, 2), B (-2, 4), C (3, 4), D (4, -3), E (-2, -2).



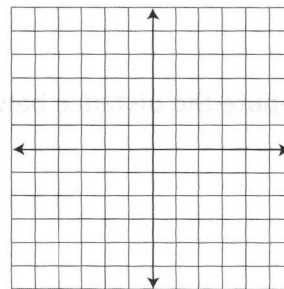
12. Find the midpoint between points A and D.

13. Find the midpoint between points B and D.

14. Find the midpoint between points E and C.



15. Plot these points: A (0, 0), B (-3, 5), C (5, 1), D (0, -3), E (-4, -1).



16. Find the midpoint between points A and C.

17. Find the midpoint between points B and E.

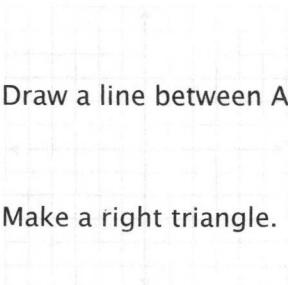
18. Find the midpoint between points A and D.



SYSTEMATIC REVIEW

Given points A (1, -1), B (5, -3), C (2, -6), D (-4, -2), and E (-3, 4):

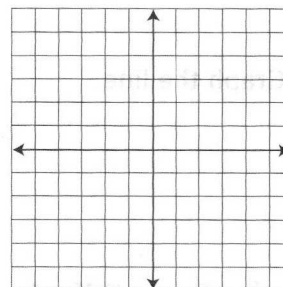
- Plot points A, B, C, D, and E.



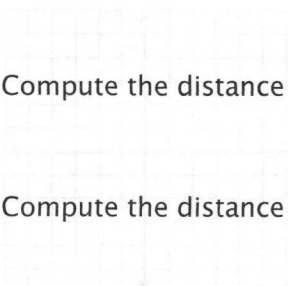
- Draw a line between A and E.

- Make a right triangle.

- Find the length of the legs.



- Use the Pythagorean theorem to find the distance between points A and E.

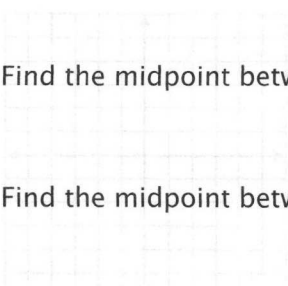


- Compute the distance between points B and D.

- Compute the distance between points B and C.

- Compute the distance between points C and E.

- Find the midpoint between points C and D.



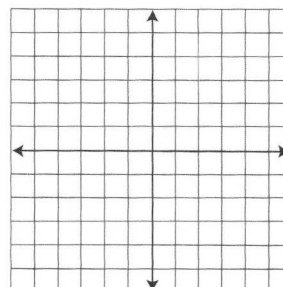
- Find the midpoint between points B and E.

- Find the midpoint between points C and E.

Given the points (4, 1) and (-1, -2):

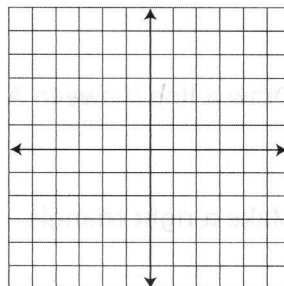
- Find the slope/intercept formula of the line.

- Graph the line.

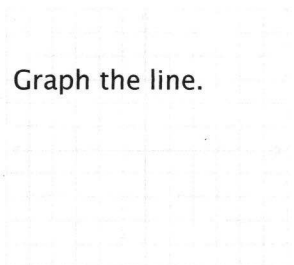


Given the line $Y = \frac{3}{4}X + 2$:

14. Find the slope/intercept formula of the line parallel to the given line through the point $(1, -3)$.

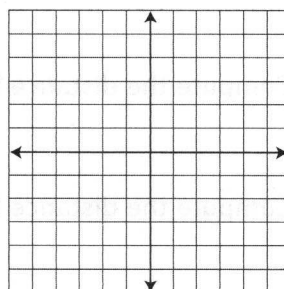


15. Graph the line.



Given the line $Y = -\frac{1}{2}X + 1$:

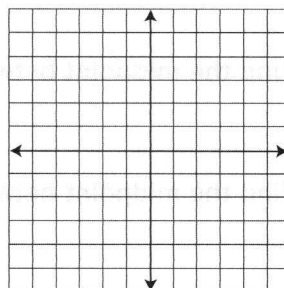
16. Find the slope/intercept formula of the line perpendicular to the given line through the point $(0, 3)$.



17. Graph the line.

Given $-4Y < 3X + 2$:

18. Graph the line.
 19. Plot two points and test them.



20. Shade the graph, and make the line dotted or solid.

