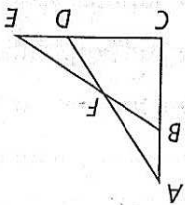


Short Response

9. What is the midpoint of a segment with endpoints at $(-2, 2)$ and $(5, 10)$?

Use the figure at the right for Exercises 10-12.

Given: $\overline{AB} \cong \overline{ED}$, $\overline{BC} \cong \overline{DC}$



11. Which reason could you use to prove $\angle C \cong \angle C$?

12. Which reason could you use to prove $\triangle ACD \cong \triangle ECB$?

13. What is the slope of a line that passes through $(-3, 5)$ and $(4, 3)$?

14. What is the slope of a line that is perpendicular to the line that passes through $(-2, -2)$ and $(1, 3)$?

Extended Response

15. Draw $\triangle ABC \cong \triangle EFG$. Write all six congruence statements.

16. The coordinates of rectangle $HJKL$ are $H(-4, 1)$, $I(1, 1)$, $J(1, -2)$, and $K(-4, -2)$. The coordinates of rectangle $LMNO$ are $L(-1, 3)$, $M(2, 3)$, $N(2, -3)$, and $O(-1, -3)$. Are these two rectangles congruent? Explain. If not, how could you change the coordinates of one of the rectangles to make them congruent?