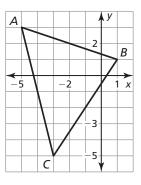
6.5 Practice B

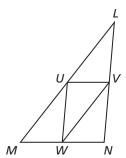
In Exercises 1–4, use the graph of $\triangle ABC$.

- **1.** Find the coordinates of the midpoint D of \overline{AB} , the midpoint E of \overline{CB} , and the midpoint F of \overline{AC} .
- **2.** Graph the midsegment triangle, $\triangle DEF$.
- **3.** Show that $\overline{FD} \parallel \overline{CB}$, $\overline{FE} \parallel \overline{AB}$, and $\overline{DE} \parallel \overline{AC}$.
- **4.** Show that $FD = \frac{1}{2}CB$, $FE = \frac{1}{2}AB$, and $DE = \frac{1}{2}AC$.

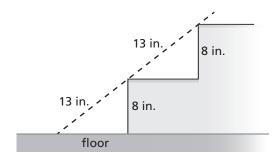


In Exercises 5–8, use $\triangle LMN$. where U, V, and W are the midpoints of the sides.

- **5.** When LV = 9, what is UW?
- **6.** When LU = 2(x 5) and VW = 8 x, what is LM?
- 7. When NL = 2x(12 + x) and $UW = (x + 4)^2$, what is LV?
- **8.** When UV = 2y + 14 and MN = 13 y, what is WN?



9. The bottom two steps of a stairwell are shown. Explain how to use the given measures to verify that the bottom step is parallel to the floor.



10. Your friend claims that a triangle with side lengths of a, b, and c will have half the area of a triangle with side lengths of 2a, 2b, and 2c. Is your friend correct? Explain your reasoning.