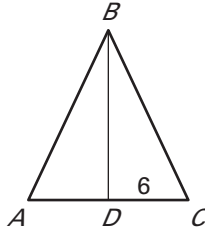


LESSON
5.4**Practice A**

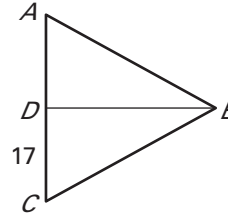
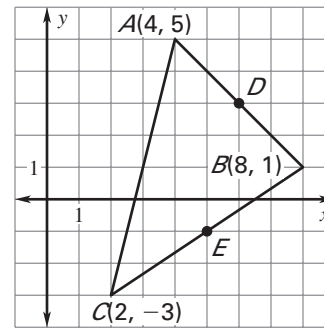
For use with pages 318–327

 \overline{BD} is a median of $\triangle ABC$. Find the length of \overline{AD} .

1.



2.

**Use the graph shown.**3. Find the coordinates of D , the midpoint of \overline{AB} .4. Find the length of the median \overline{CD} .5. Find the coordinates of E , the midpoint of \overline{BC} .6. Find the length of the median \overline{AE} .**Copy and complete the statement for $\triangle MNP$ with medians \overline{MT} , \overline{NR} , and \overline{PS} , and centroid Q .**

7. $QR = \underline{\quad ? \quad} NR$

8. $MQ = \underline{\quad ? \quad} MT$

 S is the centroid of $\triangle RTW$, $RS = 4$, $VW = 12$, and $TV = 9$. Find the length of the segment.

9. \overline{RV}

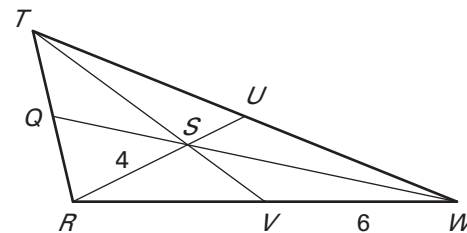
10. \overline{SU}

11. \overline{RU}

12. \overline{RW}

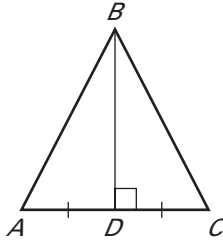
13. \overline{TS}

14. \overline{SV}

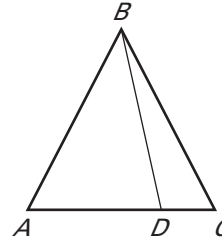


LESSON
5.4**Practice A** *continued*
*For use with pages 318–327*Is \overline{BD} a median of $\triangle ABC$? Is \overline{BD} an altitude? a perpendicular bisector?

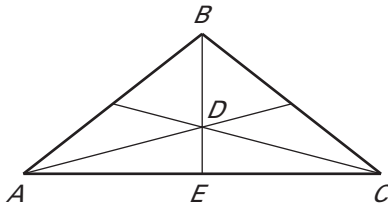
15.



16.



17. **Error Analysis** D is the centroid of $\triangle ABC$. Your friend wants to find DE . The median \overline{BE} has length 24. Find and correct the error. *Explain* your reasoning.

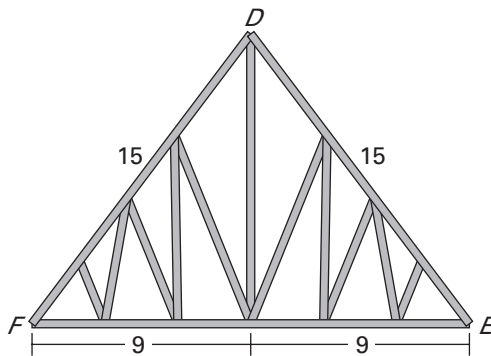


$$DE = \frac{2}{3}BE$$

$$DE = \frac{2}{3}(24)$$

$$DE = 16$$

In Exercises 18 and 19, use the following information.

Roof Trusses Some roofs are built using several triangular wooden trusses.

18. Find the altitude (height) of the truss.
19. How far down from D is the centroid of $\triangle DEF$?