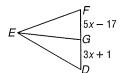
Skills Practice

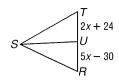
Bisectors, Medians, and Altitudes

ALGEBRA For Exercises 1-4, use the given information to find each value.

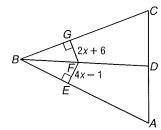
1. Find x if \overline{EG} is a median of $\triangle DEF$.

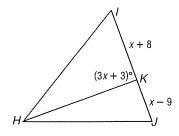


2. Find x and RT if \overline{SU} is a median of $\triangle RST$.



3. Find x and EF if \overline{BD} is an angle bisector. **4.** Find x and IJ if \overline{HK} is an altitude of $\triangle HIJ$.



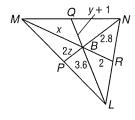


ALGEBRA For Exercises 5-7, use the following information.

In $\triangle LMN$, P, Q, and R are the midpoints of \overline{LM} , \overline{MN} , and \overline{LN} , respectively.



7. Find *z*.

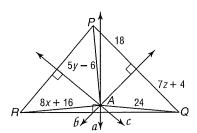


ALGEBRA Lines a, b, and c are perpendicular bisectors of $\triangle PQR$ and meet at A.

8. Find *x*.

9. Find *y*.

10. Find *z*.



COORDINATE GEOMETRY The vertices of $\triangle HIJ$ are G(1, 0), H(6, 0), and I(3, 6). Find the coordinates of the points of concurrency of $\triangle HIJ$.

11. orthocenter

12. centroid

13. circumcenter