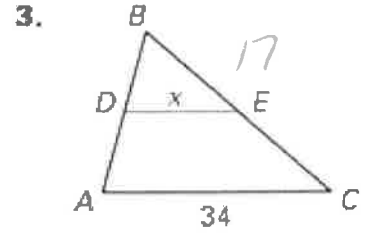
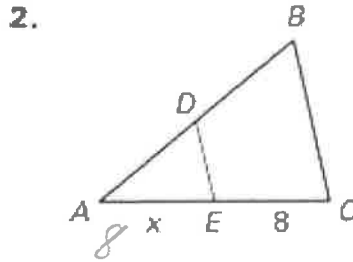
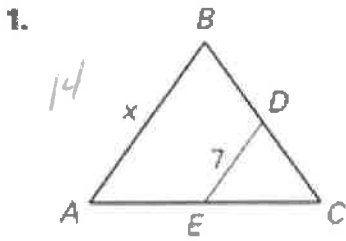
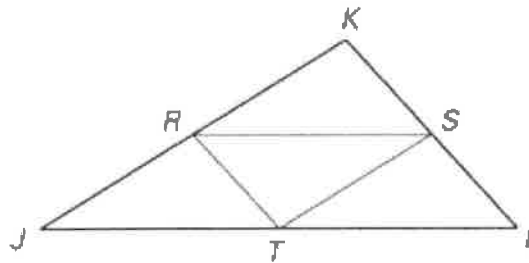


DE is a midsegment of $\triangle ABC$. Find the value of x .



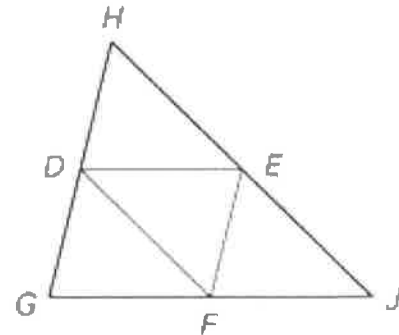
In $\triangle JKL$, $\overline{JR} \cong \overline{RK}$, $\overline{KS} \cong \overline{SL}$, and $\overline{JT} \cong \overline{TL}$. Copy and complete the statement.

4. $\overline{RS} \parallel$? \overline{JL}
5. $\overline{ST} \parallel$? \overline{KJ}
6. $\overline{KL} \parallel$? \overline{RT}
7. $\overline{SL} \cong$? \overline{RT}
8. $\overline{JR} \cong$? \overline{ST}
9. $\overline{JT} \cong$? \overline{RS}



Use $\triangle GHJ$, where D , E , and F are midpoints of the sides.

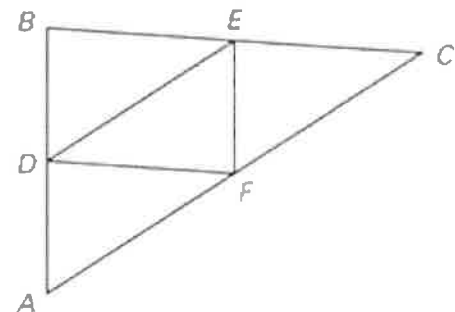
14. If $DE = 4x + 5$ and $GJ = 3x + 25$, what is DE ? 17
15. If $EF = 2x + 7$ and $GH = 5x - 1$, what is EF ? 37
16. If $HJ = 8x - 2$ and $DF = 2x + 11$, what is HJ ? 46



$2(4x + 5) = 3x + 25$
 $x = 3$

Use the diagram of $\triangle ABC$ where D , E , and F are the midpoints of the sides.

5. If $FE = 6.5x - 10$ and $AB = 3x + 20$, then $AB =$? 32
6. If $DF = 3.5x + 6$ and $BC = 3x + 36$, then $DF =$? 27



$2(6.5x - 10) = 3x + 20$

$x = 4$
 $AB = 32$

Find the unknown coordinates of the points in the figure.

