**Problem F1.** \(ABC\) is a triangle with \(a = 7, \ b = 12, \ c = 18\).
A transversal intersects the sidelines at \(X, \ Y, \ Z\) such that \(AZ = BX = CY = t\).
Calculate \(t\).
Problem F2. \( \triangle ABC \) is a triangle with \( a = 2, b = 3, c = 4 \). A transversal intersects the sidelines at \( X, Y, Z \) such that \( AY = BZ = CX = t \). Calculate \( t \).
Problem F3. \(ABC\) is a triangle with \(a = 7, b = 12, c = 18\).
A transversal intersects the sidelines at \(X, Y, Z\)
such that \(AZ = BX = CY = t\).
Calculate \(t\).
Problem F4. \( ABC \) is a triangle with \( a = 9, b = 10, c = 12 \).
A transversal intersects the sidelines at \( X, Y, Z \)
such that \( BX = CY = AZ = t \).
Calculate \( t \).
Problem F5. Given triangle $ABC$, construct a line intersecting $BC$ at $X$ externally, $CA$ at $Y$ and $AB$ at $Z$ internally so that $CX = CY = AZ$. 
Problem F6. Two transversals intersect the sidelines $BC$ of triangle $ABC$ at $X, X'$, $CA$ at $Y, Y'$, and $AB$ at $Z, Z'$ respectively. Show that the lines $YZ', ZX', XY'$ intersect $BC, CA, AB$ respectively at three collinear points.
Name: _______________________

Problem F7: Line with equal intercepts on sidelines of a given triangle.
Given triangle $ABC$,
construct a line intersecting $BC$ at $X$ externally,
$CA$ at $Y$ and $AB$ at $Z$ internally
so that $CX = CY = BZ$. 

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[Diagram of triangle ABC with a line intersecting BC at X, CA at Y, and AB at Z, with equal intercepts CX = CY = BZ.]