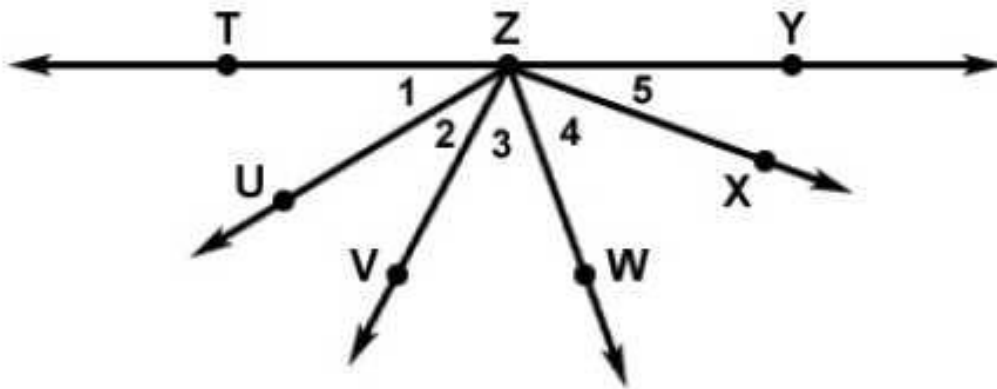


Basic Figures - Angle Addition Postulate & Angle Bisector

Use the diagram below to answer questions 1 – 16:



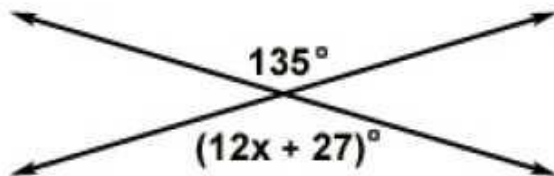
1. Name an angle adjacent to $\angle UZY$.
2. Name an angle adjacent to $\angle XZT$.
3. Name 3 angles adjacent to $\angle XZV$.
4. Name 3 angles adjacent to $\angle WZY$.
5. If $m\angle 3 = 8x$, $m\angle 4 = 4(x + 10)$, and $m\angle VZX = 124^\circ$, find x .
6. If $m\angle 4 = 9x - 2$, $m\angle 5 = 5(x + 9)$, and $m\angle WZY = 85^\circ$, find x .
9. Suppose that \overline{ZU} bisects $\angle TZV$, $m\angle 1 = 9x - 14$, and $m\angle 2 = 5x - 2$. Find x and $m\angle 1$.

Angle Pairs - Complementary & Supplementary Angles (Part II)

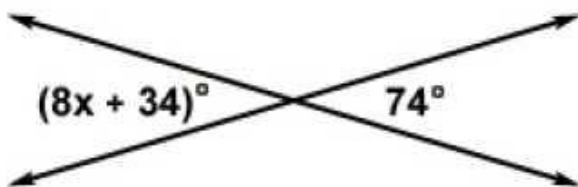
1. If $\angle V$ and $\angle W$ are supplementary, and $m\angle V = 12x + 5$ and $m\angle W = 127$, find x .
2. If $\angle S$ and $\angle T$ are complementary, and $m\angle S = 4x + 3$ and $m\angle T = 39$, find x .

Angle Pairs - Vertical Angles

7. Using the diagram shown, find the value of x .



8. Using the diagram shown, find the value of x .



9. Using the diagram shown, find: x , $m\angle AEC$, and $m\angle BED$.

