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Math 8

Solving for Congruent Angles - Homework

1) In the diagram below, two parallel lines are cut by a transversal.


What is the value of $x$ ?
2) In the diagram below, two parallel lines are cut by a transversal.


What is the value of $x$ ?
3) In the diagram below, two parallel lines are cut by a transversal.


What is the value of $x$ ?

Questions 4 through 6 refer to the following:

Given the figure below where $a \| b$.

4) Find the $\mathrm{m} \angle 5$ if $\mathrm{m} \angle 7=123^{\circ}$.
5) Find the $\mathrm{m} \angle 4$ if $\mathrm{m} \angle 2=145^{\circ}$.
6) Find the $\mathrm{m} \angle 1$ if $\mathrm{m} \angle 6=36^{\circ}$.

1) 23
2) 2
3) 35
4) $123^{\circ}$
5) $145^{\circ}$
6) $36^{\circ}$
