## Parallel Lines and Angles Ticket Out the Door

1.-4. Find x and y in the diagrams.



5. The following diagram shows parallel lines cut by a transversal. What is the value of x?



6. The following diagram shows parallel lines cut by a transversal. What is the value of  $\angle 2?$ 



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7. Write which theorem or postulate that is related to the measures of the angles in each pair.

Then find the angle measures.



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