Transversals and Angles

Use the diagram to give two examples of each.

1. a pair of vertical angles
   ______________________________________________________________________

2. a pair of alternate interior angles
   ______________________________________________________________________

3. a pair of alternate exterior angles
   ______________________________________________________________________

Find the measure of each angle.

4. \( \angle a \)  
   __________

5. \( \angle b \)  
   __________

6. \( \angle d \)  
   __________

7. \( \angle e \)  
   __________

8. \( \angle f \)  
   __________

9. \( \angle g \)  
   __________

Test Prep

10. \( \angle T \) and \( \angle V \) are alternate interior angles. If \( m\angle T = 58^\circ \), what is \( m\angle V \)?
    
    A  58°  
    B  32°  
    C  122°  
    D  NH

11. Two lines that are not parallel are cut by a transversal. \( \angle A \) and \( \angle M \) are alternate exterior angles. \( m\angle A = 62^\circ \). Can you find \( m\angle M \)? Explain.
    
    ______________________________________________________________________
    
    ______________________________________________________________________
    
    ______________________________________________________________________