4.2 Transversals and Parallel Lines

Essential Question: How can you prove and use theorems about angles formed by transversals that intersect parallel lines?

Transversal- a line that intersects two coplanar lines at two different points

Corresponding angles- lie on the same side of the transversal and on the same sides of the intersected lines

Same-side interior angles- lie on the same side of the transversal and between the intersected lines Alternate interior angles- nonadjacent angles that lie on opposite sides of the transversal between the intersected lines





pg 179 7. In the diagram of a gate, the horizontal bars are parallel and the vertical bars are parallel. Find x and y. Name the postulates and/or theorems that you used to find the values. $\frac{126^{\circ}}{(12x+2y)^{\circ}} \frac{1}{(3x+2y)^{\circ}}$

