Parallel Lines Cut by a Transversal



Corresponding Angles – Angles in matching corners.

1 & 5 2 & 6 3 & 7 4 & 8

Interior Angles – Angles inside of the parallel lines.

3, 4, 5 & 6

Exterior Angles – Angles outside of the parallel lines.

1, 2, 7 & 8

Alternate Interior Angles – Angles inside of the parallel lines on opposite sides of the transversal.

3 & 6 4 & 5

Alternate Exterior Angles – Angles outside of the parallel lines on opposite sides of the transversal.

1 & 8 2 & 7



If angle 3 is 42o, then what is the measure of angle 5?

138o

If angle 8 is 105o, then what is the measure of angle 1?

105o

If angle 6 is 27o, then what is the measure of angle 4?

153o

If angle 1 is 107o, then what is the angle of measure 5?

107o

If angle 4 is 123o, then what is the measure of angle 3?

57o

If angle 2 is 50o, then what is the measure of angle 6?

50o