Math Practice - Grade 8

M9 Angles, triangles, transversals - Angles formed by a transversal

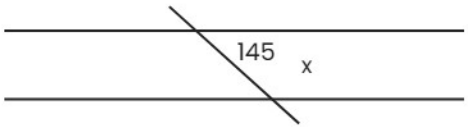
M9 8.G.A.5

Name: _____ Date: _____

Find the angle marked x. Write the answer in the box.

Example: Two parallel lines are cut by a transversal. One angle is 145 degrees. Find the same-side interior angle marked x.

How: When parallel lines are cut by a transversal, corresponding angles are equal, alternate interior angles are equal, and same-side interior angles add to 180 degrees.



x = 35

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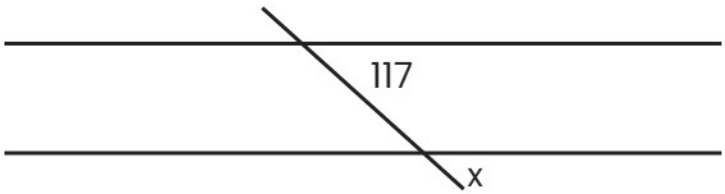
1 **Two parallel lines are cut by a transversal. One angle is 117 degrees. Find the corresponding angle marked x.**



x = ☐

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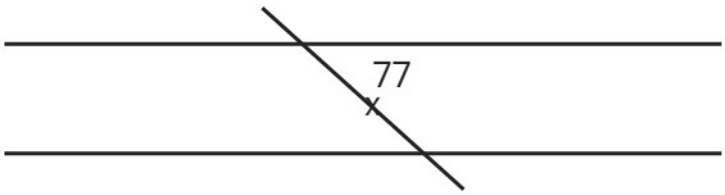
2 **Two parallel lines are cut by a transversal. One angle is 77 degrees. Find the alternate interior angle marked x.**



x = ☐

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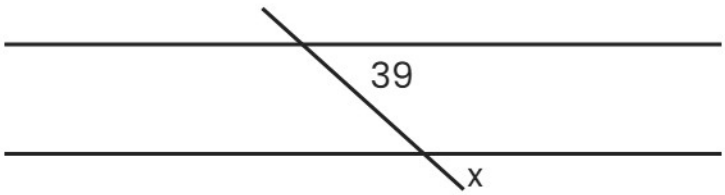
3 **Two parallel lines are cut by a transversal. One angle is 39 degrees. Find the corresponding angle marked x.**



x = ☐

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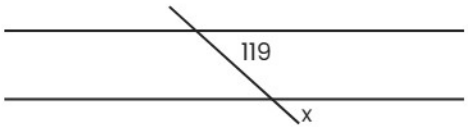
M9 8.G.A.5

Name: _____ Date: _____

Find the angle marked x. Write the answer in the box.

Example: Two parallel lines are cut by a transversal. One angle is 119 degrees. Find the corresponding angle marked x.

How: When parallel lines are cut by a transversal, corresponding angles are equal, alternate interior angles are equal, and same-side interior angles add to 180 degrees.



x = 119

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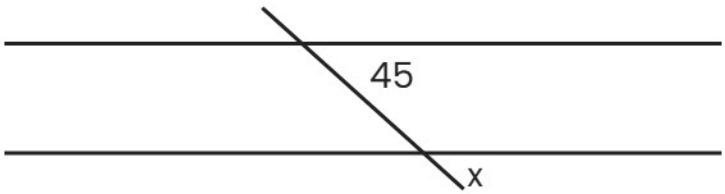
1 **Two parallel lines are cut by a transversal. One angle is 45 degrees. Find the corresponding angle marked x.**



x = ☐

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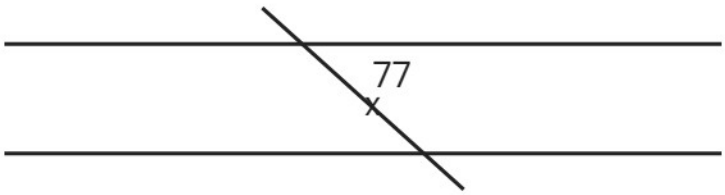
2 **Two parallel lines are cut by a transversal. One angle is 77 degrees. Find the alternate interior angle marked x.**



x = ☐

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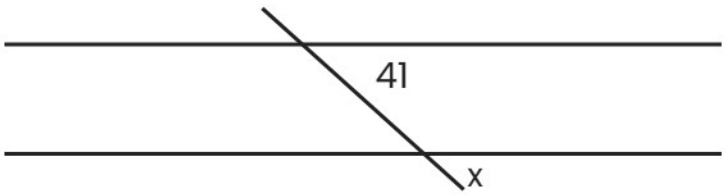
3 **Two parallel lines are cut by a transversal. One angle is 41 degrees. Find the corresponding angle marked x.**



x = ☐

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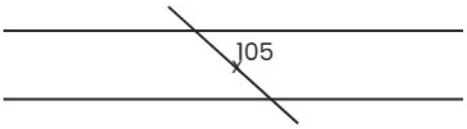
Name: _____ Date: _____

Find the angle marked x. Write the answer in the box.

Example: Two parallel lines are cut by a transversal. One angle is 105 degrees. Find the alternate interior angle marked x.

How: When parallel lines are cut by a transversal, corresponding angles are equal, alternate interior angles are equal, and same-side interior angles add to 180 degrees.



x = 105

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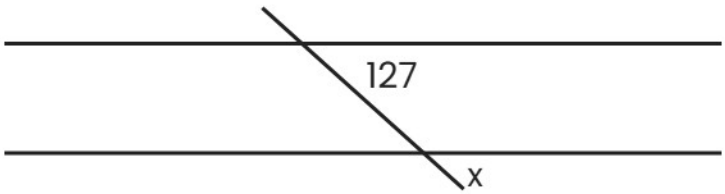
1 **Two parallel lines are cut by a transversal. One angle is 127 degrees. Find the corresponding angle marked x.**



x = ☐

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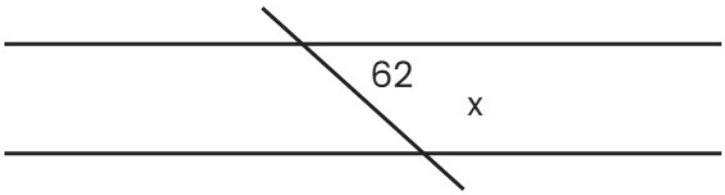
2 **Two parallel lines are cut by a transversal. One angle is 62 degrees. Find the same-side interior angle marked x.**



x = ☐

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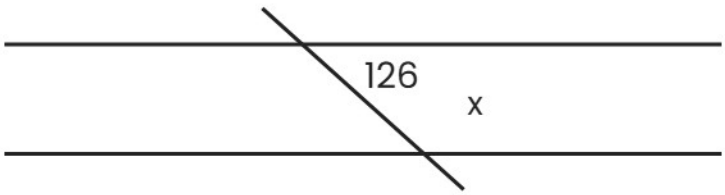
3 **Two parallel lines are cut by a transversal. One angle is 126 degrees. Find the same-side interior angle marked x.**



x = ☐