

MasterMath

GEOMETRY

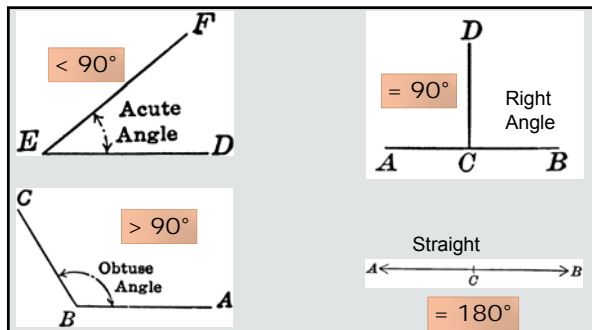
Classifying Angles and Sides of Triangles





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Complementary Angles
 $\angle 1 + \angle 2 = 90^\circ$

Supplementary Angles
 $\angle 1 + \angle 2 = 180^\circ$

Congruent Angles
 $\angle b = \angle o$

Vertical Angles
 $\angle 3 = \angle 4$
 $\angle 1 = \angle 2$

Classifying Angles and Sides of Triangles

Right Triangle
 90°

Isosceles Triangle
Side a = Side b

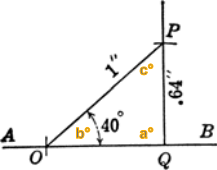
Classifying Angles and Sides of Triangles

Obtuse.
one $\angle > 90^\circ$

Acute.
all $\angle < 90^\circ$

Equilateral.
all $\angle =$
all sides =

Classifying Angles and Sides of Triangles

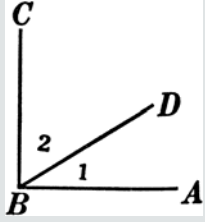


$a^\circ + b^\circ + c^\circ = 180^\circ$

$90^\circ + 40^\circ + c^\circ = 180^\circ$
 $180^\circ - 90^\circ - 40^\circ = c^\circ$
 $c = 50^\circ$

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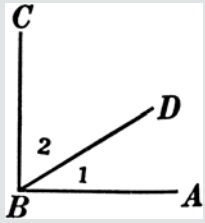
You try it!
What is the sum of angles 1 & 2?



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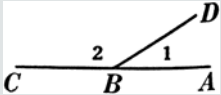
You try it!
What is the sum of angles 1 & 2?

90°



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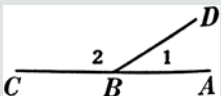
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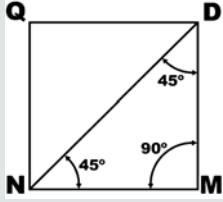
You try it!
What is the sum of angles 1 & 2?

180°



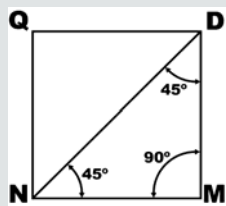
Classifying Angles and Sides of Triangles

You try it!
How many degrees is $\angle QDN$?



Classifying Angles and Sides of Triangles

You try it!
How many degrees is $\angle QDN$?



45°

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You try it!

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skill. Then see how much you understand
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