

In the diagram $\angle RPM = 20^\circ$ and $\angle QMP = 70^\circ$. What is $\angle PRS$?

Given that $AB = AC$ and $z < 90$, which of the following expressions must equal z ?

A $x - y$ B $x + y$ C $x + y - 180$
 D $180 - x + y$

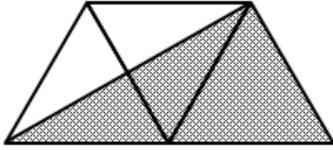
What is the sum of the six marked angles?

The diagram shows two equilateral triangles. Find the size of angle x .

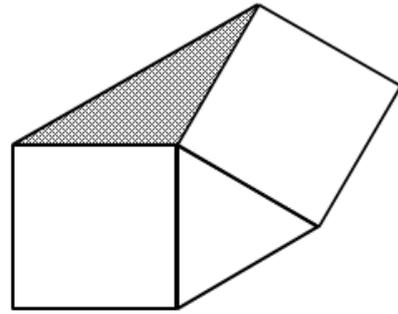
Find the sum of the angles $a + b + c + d + e + f$

what is $\alpha - \beta$?

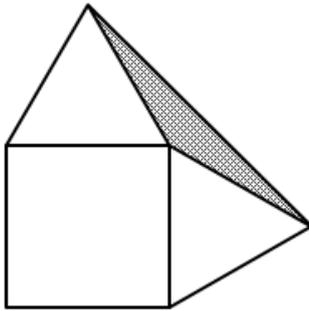
squares with equilateral triangles



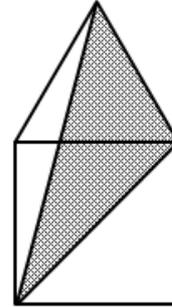
three equilateral triangles
what are the angles in the triangle shown?



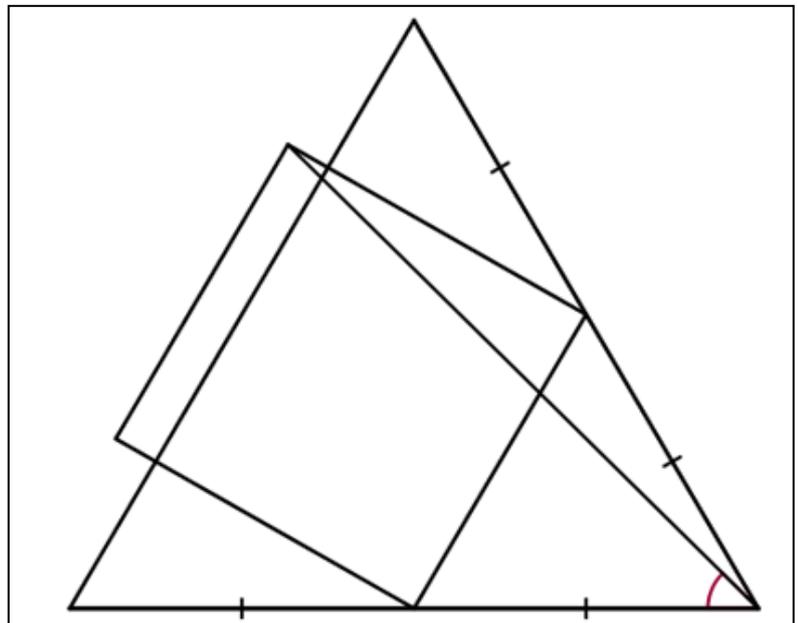
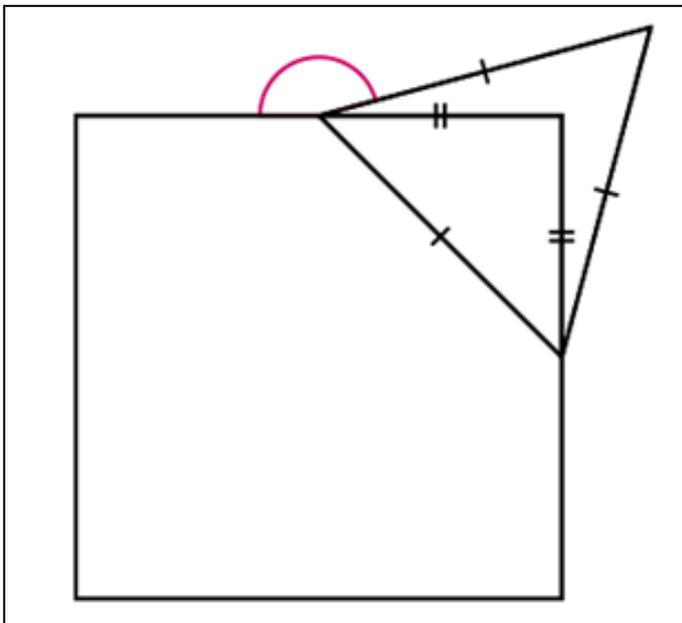
two squares and an equilateral triangle
what are the angles in the triangle shown?



a square with two equilateral triangles
what are the angles in the triangle shown?



a square with an equilateral triangle
what are the angles in the triangle shown?



Sources:

- 1) and 2) UKMT via <https://diagnosticquestions.com/UKMT>
- 3) and 4) UKMT via Dan Walker's problem solving resource (available on TES)
- 5) Brilliant.org
- 6 and 7) Don Steward
- 8 and 9) solvemymaths.com (Find the marked angle. These puzzles are constructed using regular shapes).