Interior angles in polygons

96a

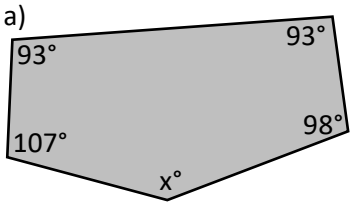
MATHS-SCHOOL

maths-school.co.uk

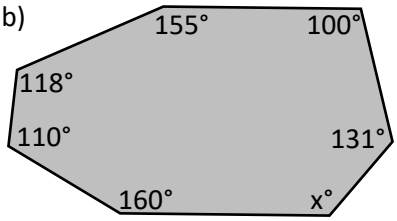
Name:

Calculate the value of missing angle x in these polygons .

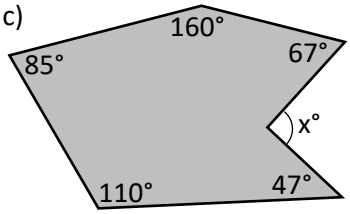
a)



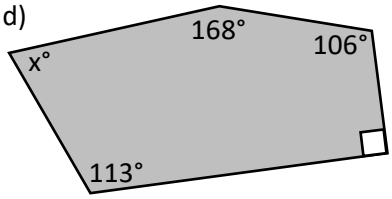
b)



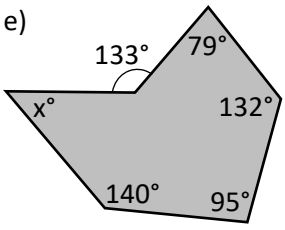
c)



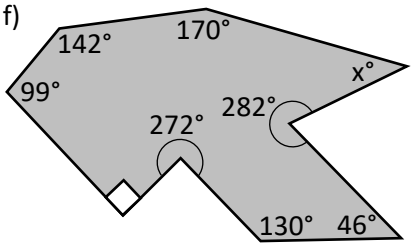
d)



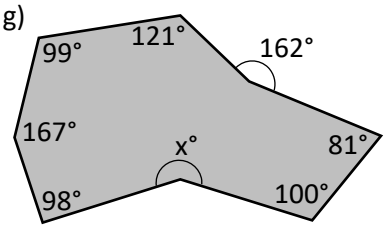
e)



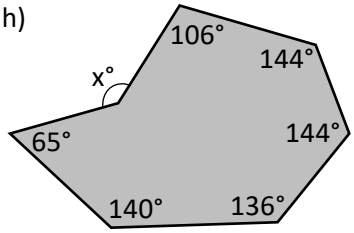
f)



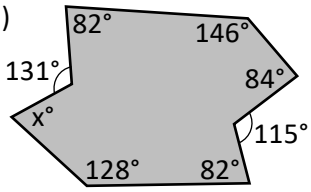
g)



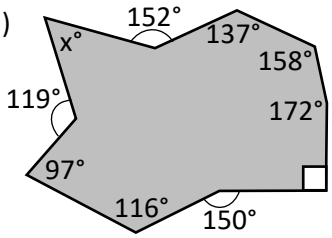
h)



i)

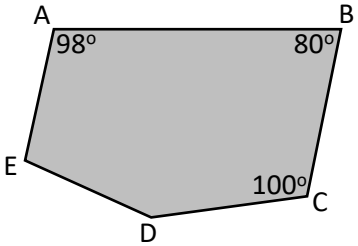


j)



Exam question:

The diagram shows the pentagon ABCDE.
Angle CDE is twice as big as angle ABC.
Calculate the size of angle AED.



Exterior angles in polygons

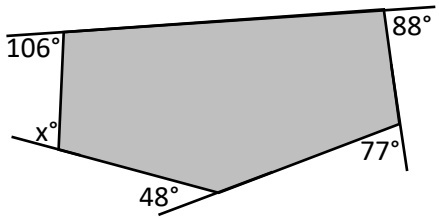
96b

maths-school.co.uk

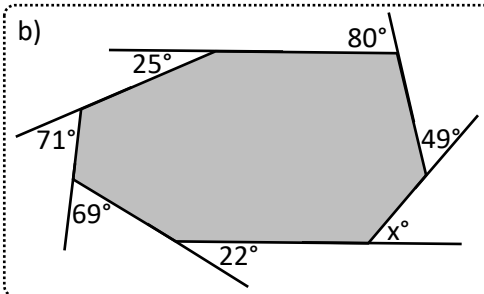
Name:

Calculate the value of missing angle x in these polygons .

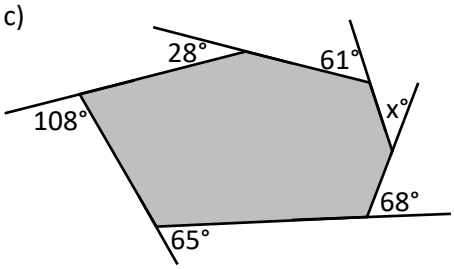
a)



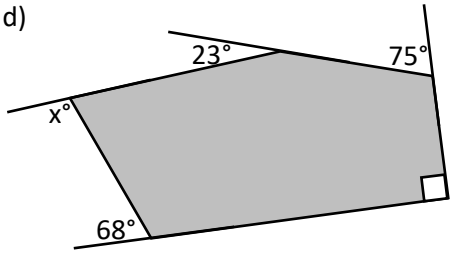
b)



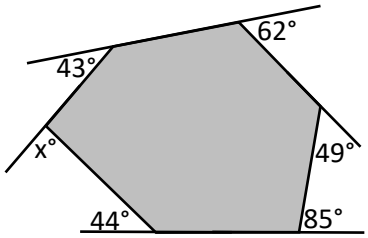
c)



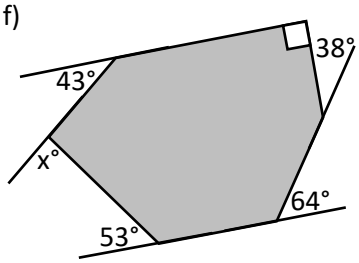
d)



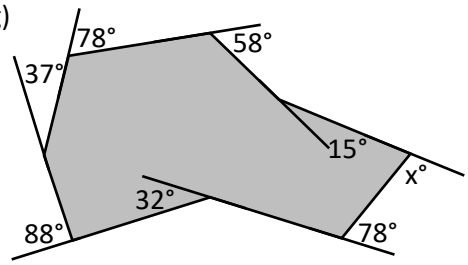
e)



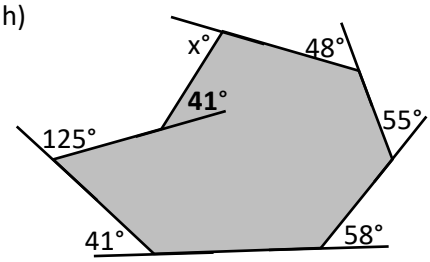
f)



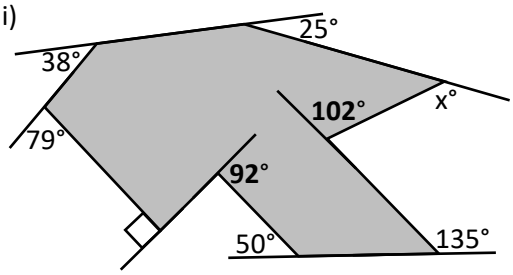
g)



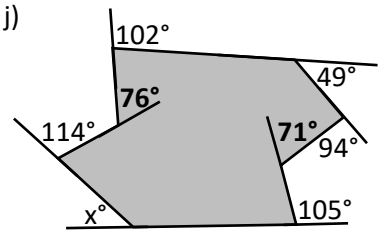
h)



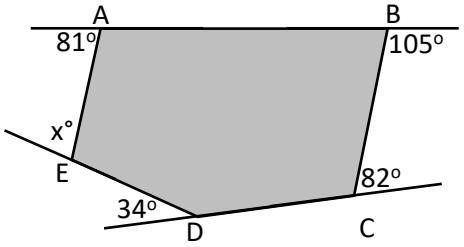
i)



j)



Exam question:
The diagram shows the pentagon ABCDE.
Calculate the external angle shown as x at E.



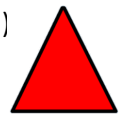
Angles in regular polygons

96c

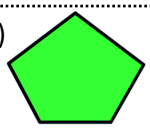
maths-school.co.uk

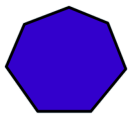
Name:

Calculate the size of each **interior** angle of the **regular** shapes:

a) 

b) 

c) 

d) 

n) Decagon

o) Octagon

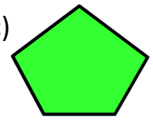
p) Hexagon

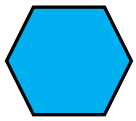
q) 18 sided shape

Calculate the size of each **exterior** angle of the **regular** shapes:

a) 

b) 

c) 

d) 

n) Decagon

o) Octagon

p) 12 sided shape

q) 18 sided shape

Find the number of sides of a **regular** polygon which has an **interior** angle of:

a) 90°

b) 144°

d) 120°

e) 157.5°

g) 135°

h) 160°

Find the number of sides of a **regular** polygon which has an **exterior** angle of:

a) 120°

b) 9°

d) 15°

e) 22.5°

g) 7.5°

h) 14.4°

Exam question:

Find the number of sides of a **regular** polygon which has an exterior angle of 30°.