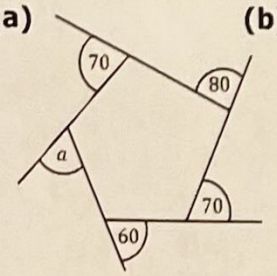
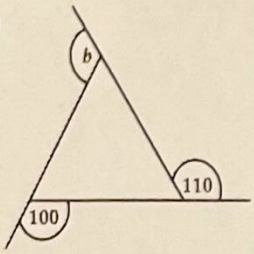
Angles in Irregular Polygons

Find the missing exterior angles.

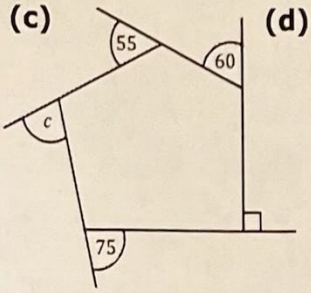
(a)



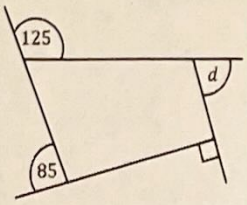
(b)



(c)



(d)



(a) $a = 80°$

(b) $b = 150°$

(c) $c = 80°$

(d) $d = 60°$

(a) An irregular quadrilateral has interior angles of $90°$, $100°$ and $105°$. What is the size of the fourth angle?

(b) An irregular hexagon has angles of $100°$, $110°$, $115°$, $130°$, and $140°$. What is the size of the sixth angle?

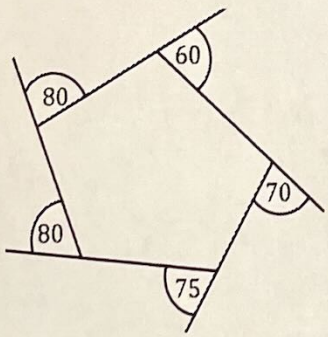
(c) An irregular octagon has six angles of $145°$. If the remaining two angles are equal, what is the size of each?

(a) $65°$

(b) $125°$

(c) $105°$

Jay measured the exterior angles in this polygon. Explain how you know his measurements are wrong.



The angles add to $365°$ when they should add to $360°$

A decagon has 2 angles of the same size and a further 8 angles of twice the size. What are the sizes of the angles?

$80°$ and $160°$