## Angles in Irregular Polygons

Find the missing exterior angles.

(b)



(a) An irregular quadrilateral has interior angles of $90^{\circ}, 100^{\circ}$ and $105^{\circ}$. What is the size of the fourth angle?
(b) An irregular hexagon has angles of $100^{\circ}, 110^{\circ}, 115^{\circ}, 130^{\circ}$, and $140^{\circ}$. What is the size of the sixth angle?
(c) An irregular octagon has six angles of $145^{\circ}$. If the remaining two angles are equal, what is the size of each?

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


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?

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