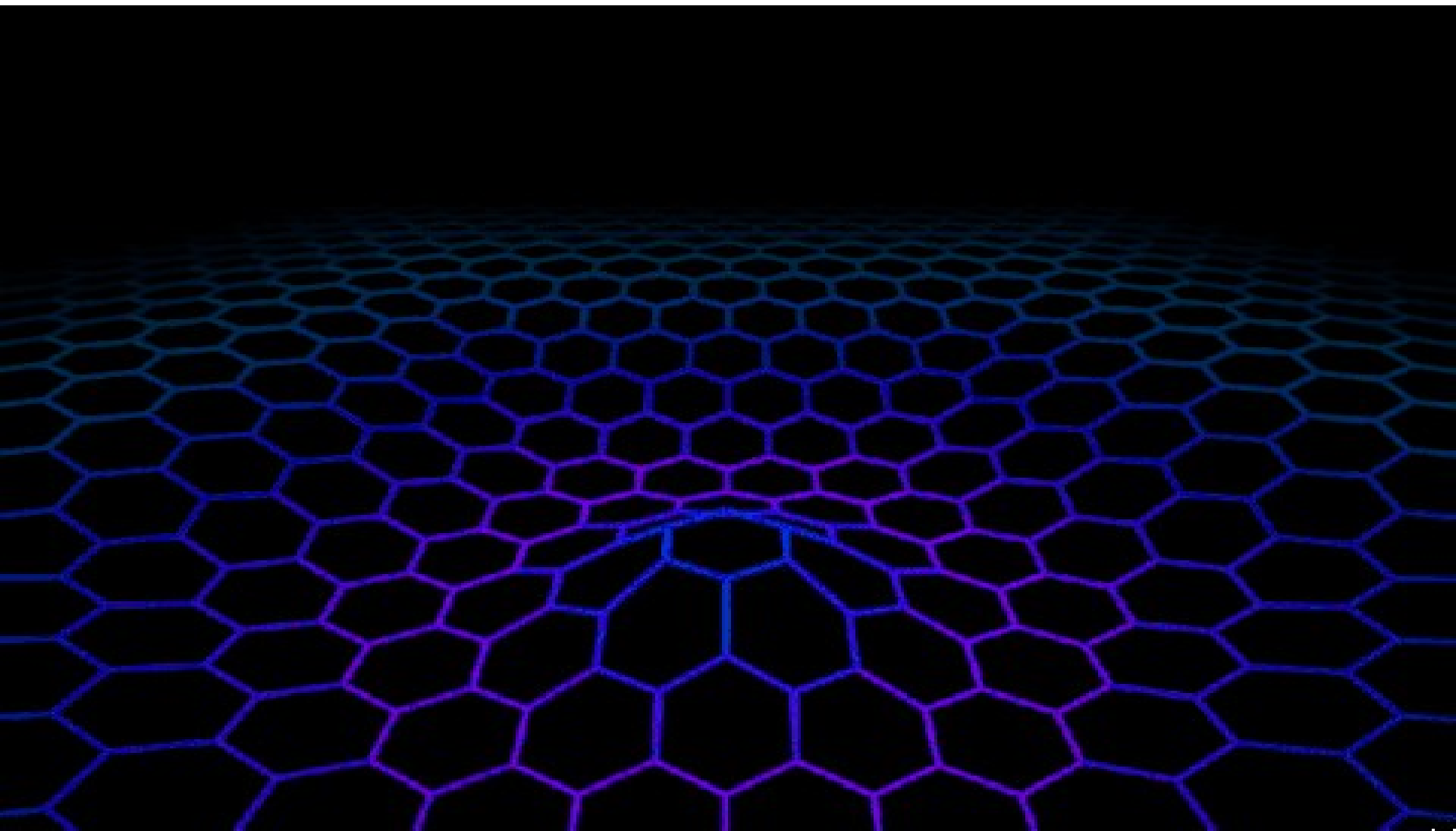
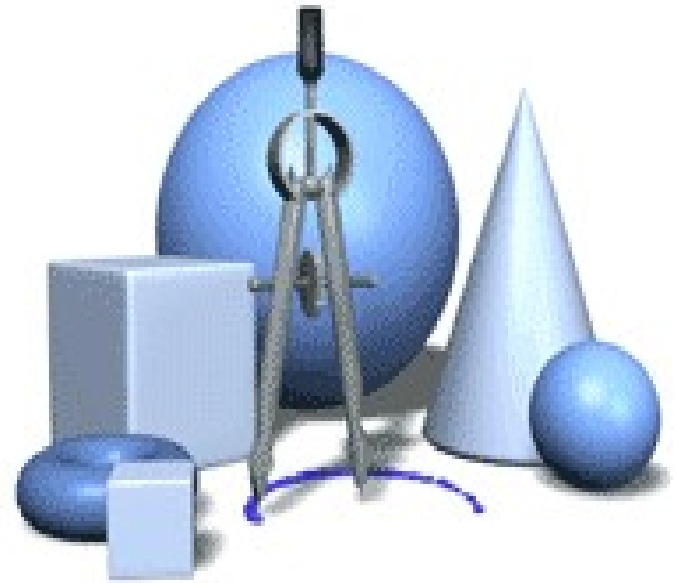
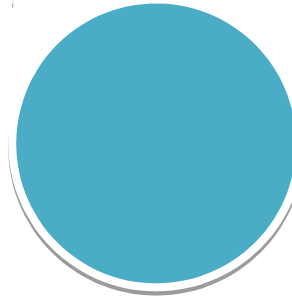
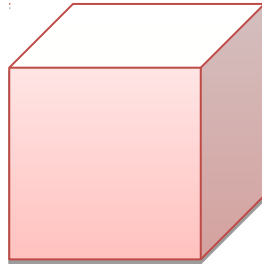
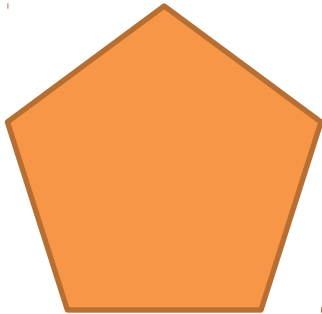
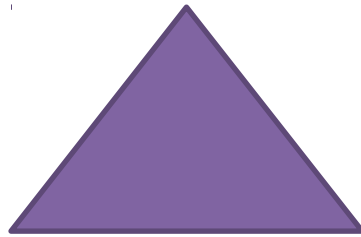


GEOMETRIC FIGURES



GEOMETRICAL FIGURES SEEN IN DAILY LIFE





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Pictometry Bird's Eye © 2010 Pictometry International

Image courtesy of USGS

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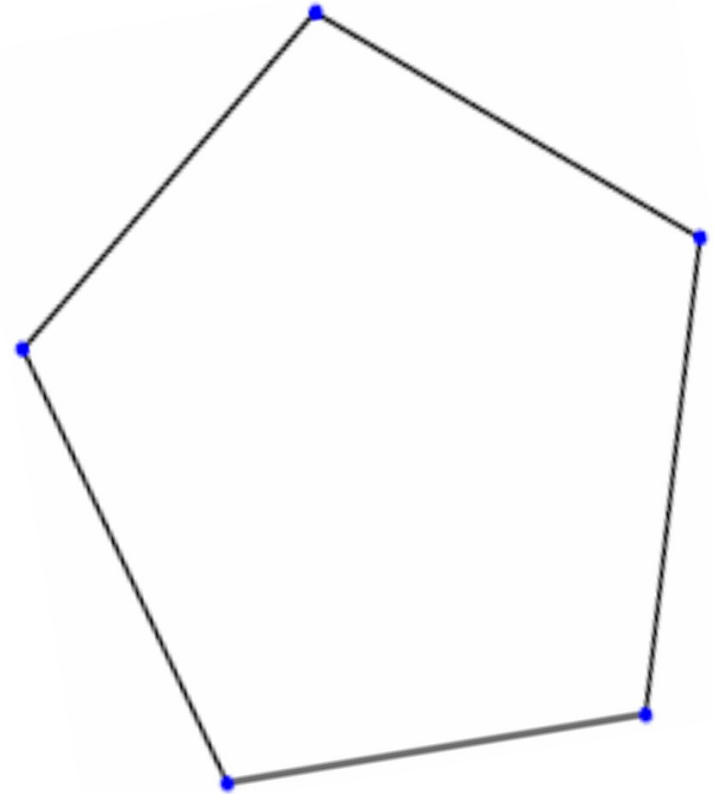
500 Feet

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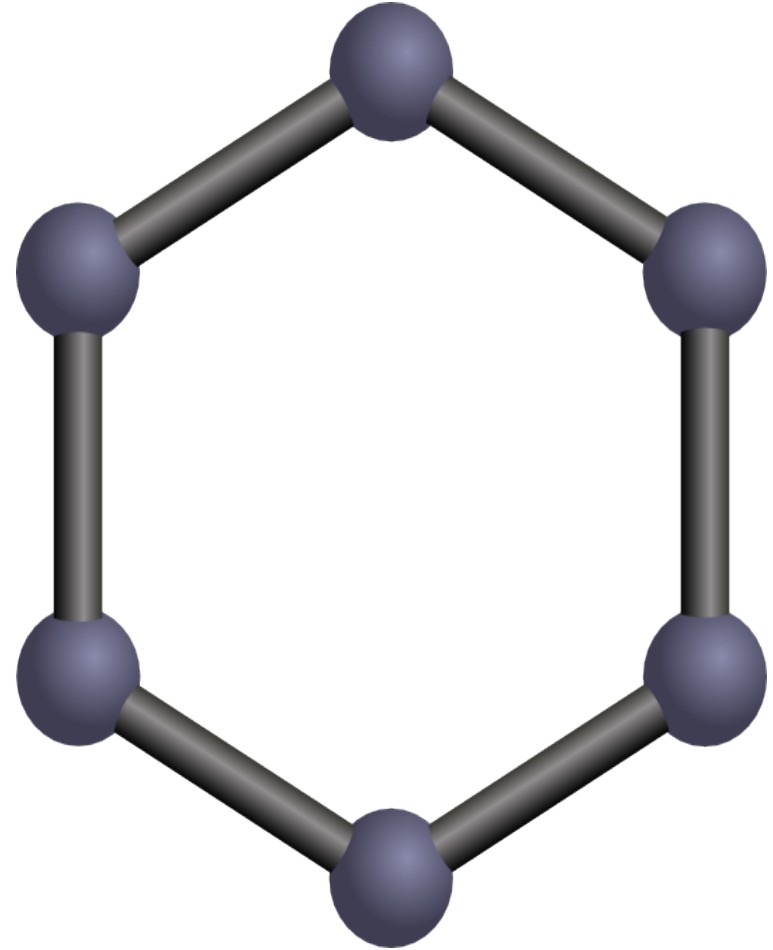
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PENTAGON



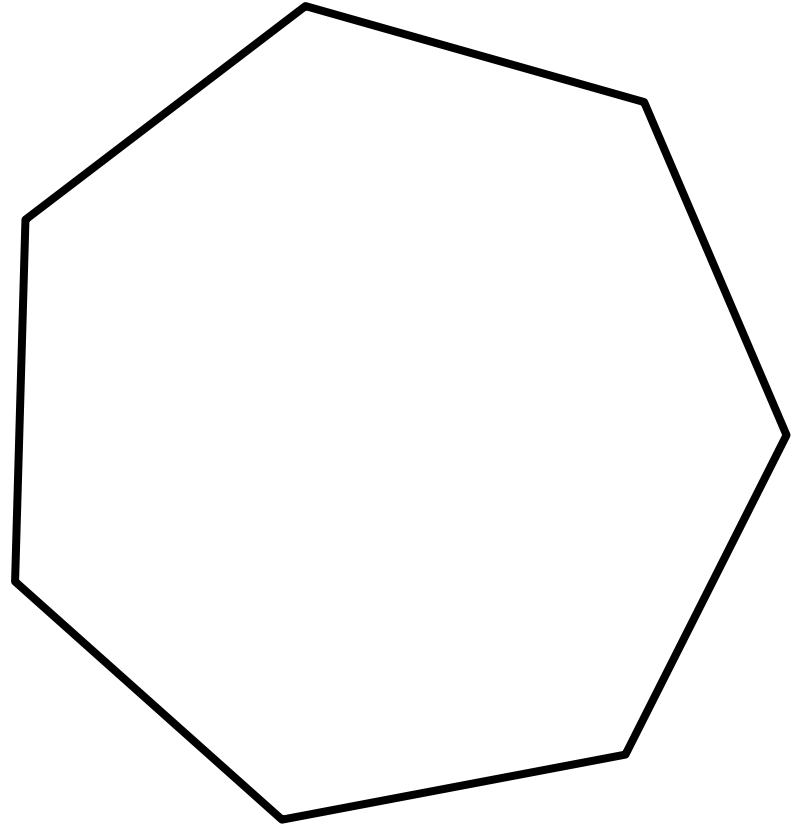


HEXAGON



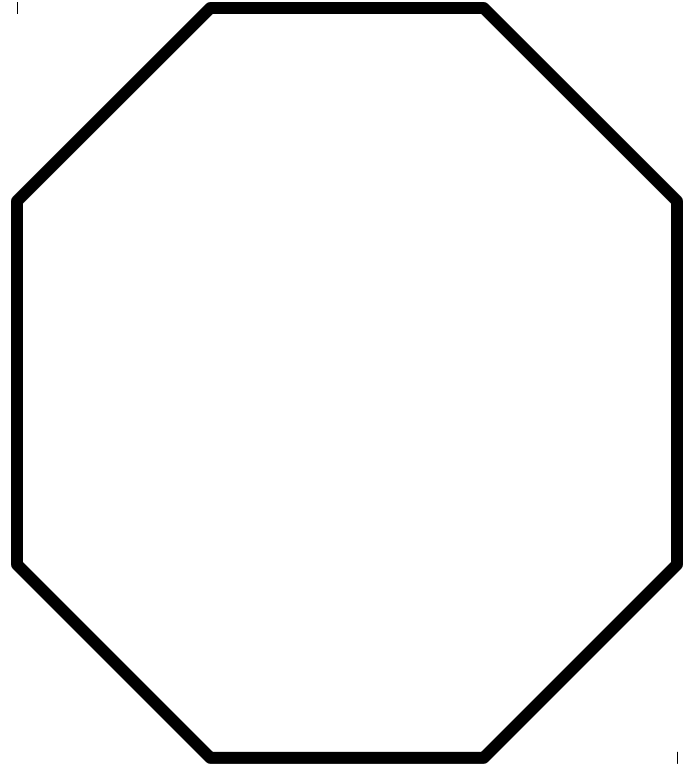


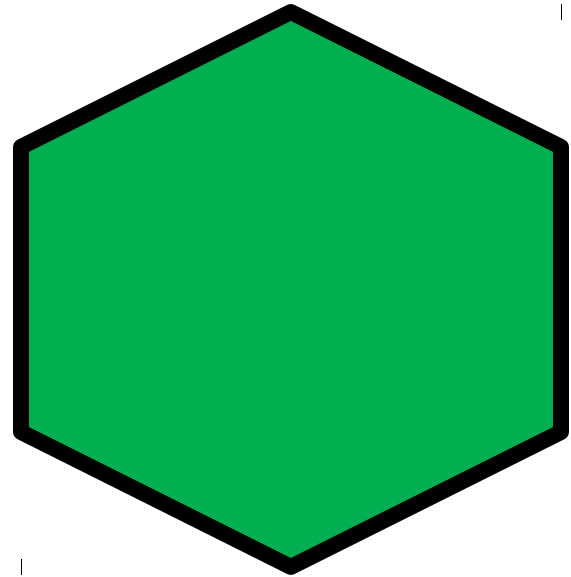
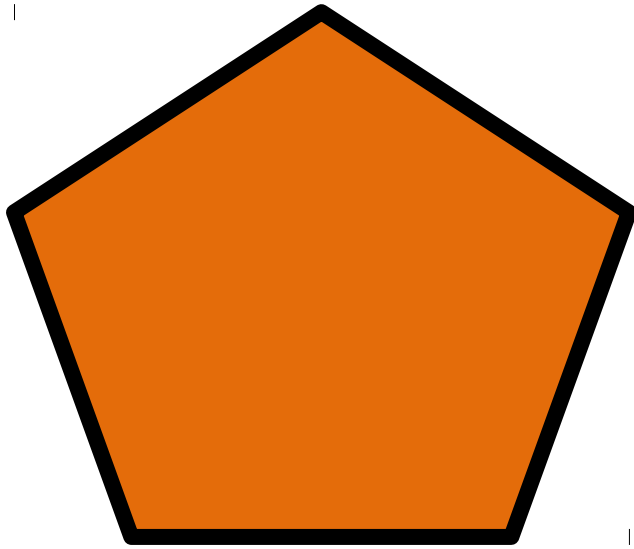
HEPTAGON



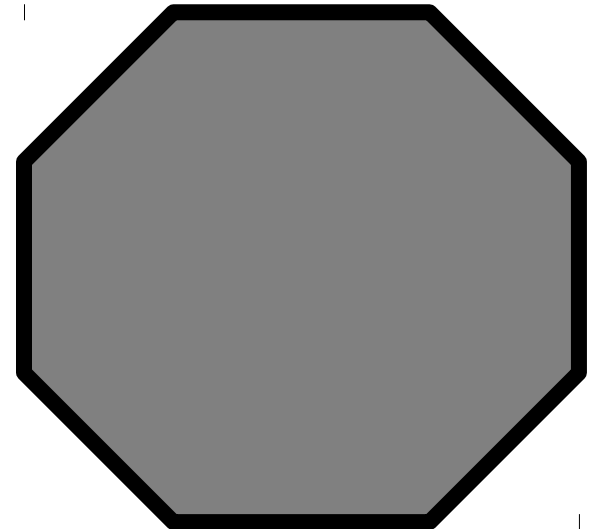
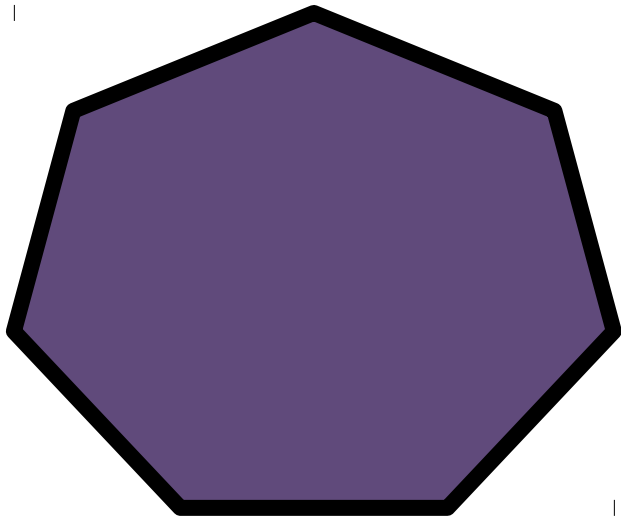


OCTAGON

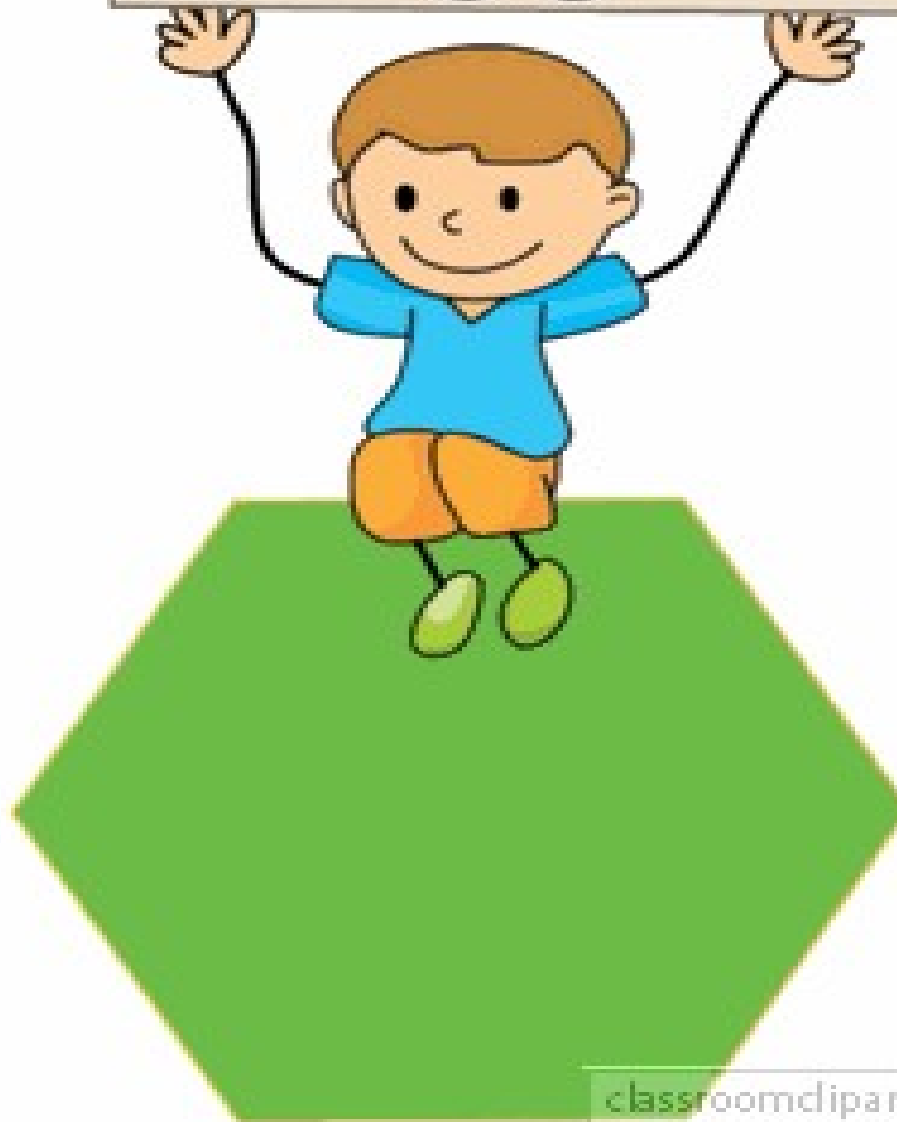




What is the common thing you observe

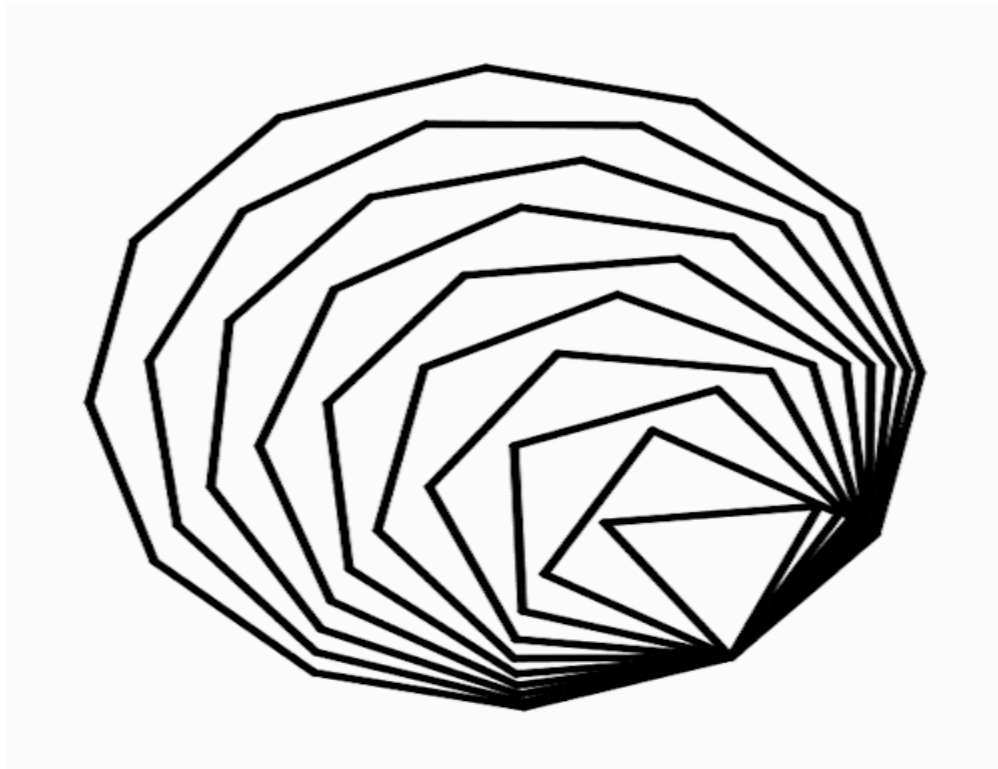


Polygon



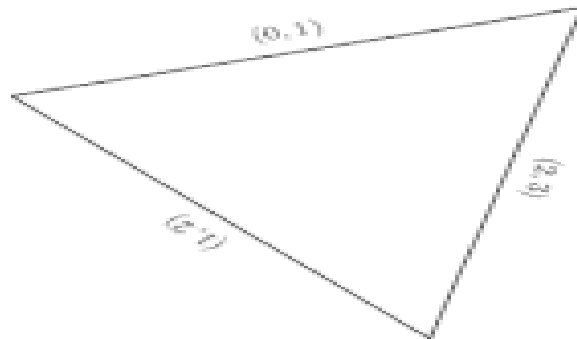
POLYGONS

POLYGONS ARE CLOSE GEOMETRICAL FIGURES BOUNDED BY THREE OR MORE LINES.



THE WORD POLYGONS ARE DERIVED FROM TWO GREEK WORDS

- **POLY** means **MANY**
- **GON** means **ANGLES**



**HOW TO
DETERMINE THE
SUM OF TOTAL
ANGLES OF A
POLYGON
WITHOUT
MEASUREMENT ?**



PresenterMedia

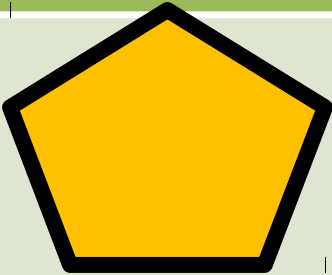
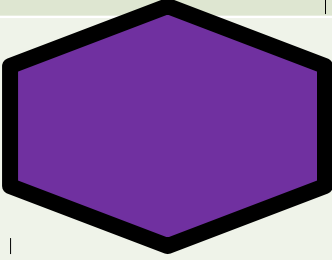
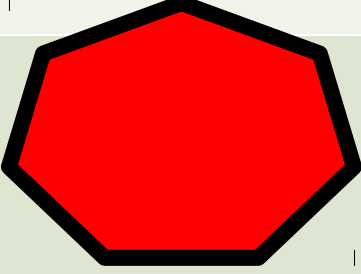
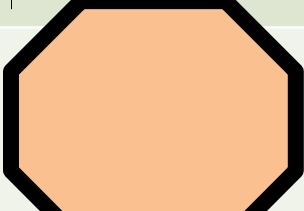


ACTIVITY



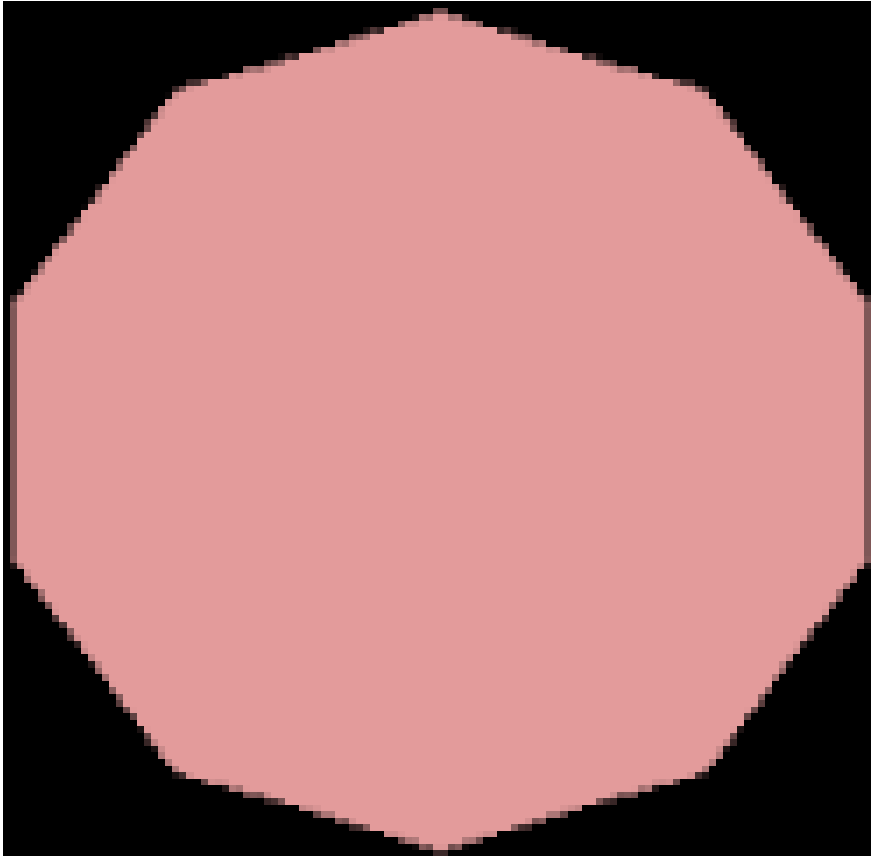
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SL.NO	NAME OF THE POLYGON	NUMBER OF SIDES	NUMBER OF DIAGONALS	NUMBER OF TRIANGLES
1	<u>PENTAGON</u>	5	2	3
2	<u>HEXAGON</u>	6	3	4
3	<u>HEPTAGON</u>	7	4	5
4	<u>OCTAGON</u>	8	5	6

SL NO	POLYGON	NUMBER OF SIDES "n"	NUMBER OF TRIANGLES "m"
1		5	3
2		6	4
3		7	5
4		8	6

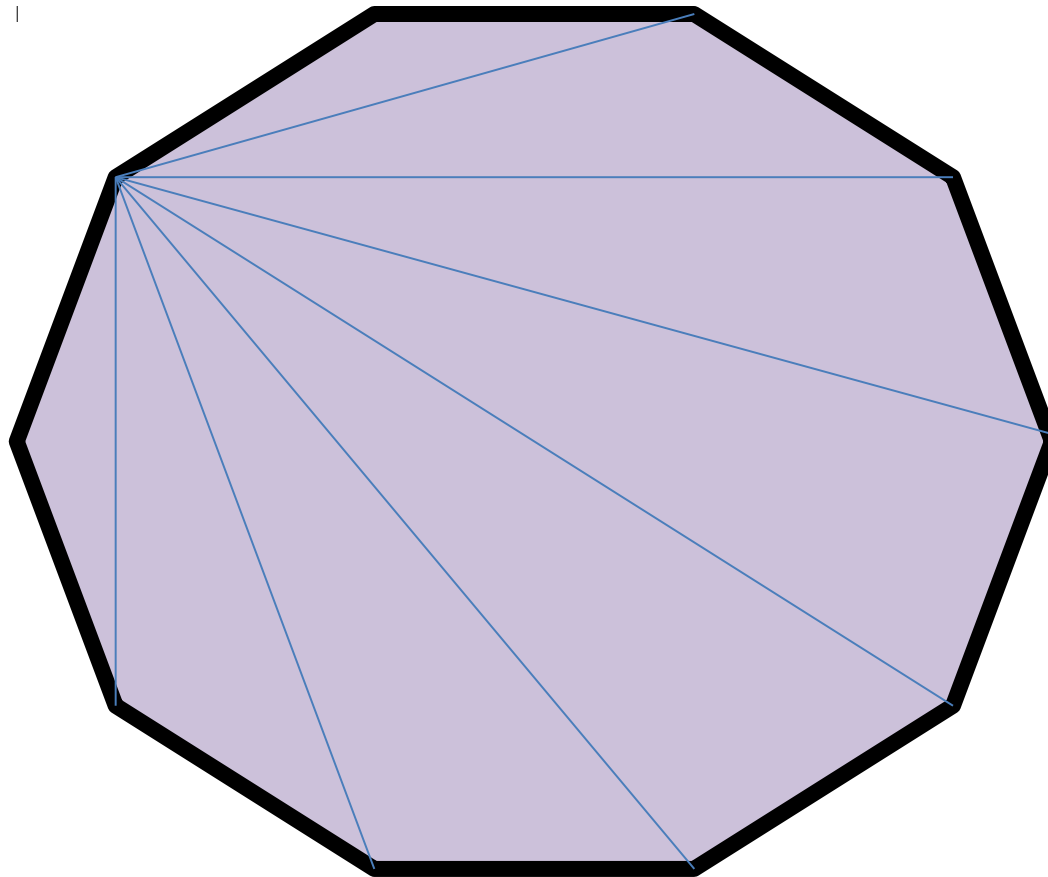
- IF A POLYGON HAS n SIDES AND IF ALL POSSIBLE DIAGONALS ARE DRAWN FROM ANY FIXED VERTEX, THERE WILL BE A TOTAL OF $(n-2)$ TRIANGLES ARE FORMED.

HOW MANY TRIANGLES WE WILL GET



8

NOW BY
OBSERVING PICTURE HOW CAN YOU CALCULATE
SUM OF INTERIOR ANGLES OF A POLYGON ?



SUM OF INTERIOR ANGLES OF A TRIANGLE

- **180°**

- THE SUM OF INTERIOR ANGLES POLYGON WITH n SIDE IS EQUAL TO $(n-2)$ straight angles

Sum of all the interior angles of a
polygon = sum of all interior
angles of $(n-2)$ triangles.
 $= (n-2) \times 180^\circ$.
 $= (n - 2) \times \text{Straight angles}$
 $= (n-2) \times 2 \text{ right angles}$

“ANGLE SUM
PROPERTY OF
A POLYGON”

WHAT IS THE SUM
OF INTERIOR
ANGLES OF A
NANOGON?

THANK YOU