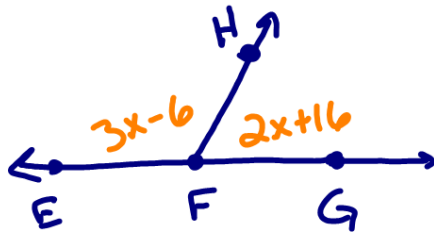


# Warm-up

① Find  $\angle EFH$



$$3x - 6 + 2x + 16 = 180$$

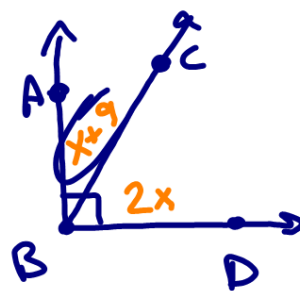
$$5x + 10 = 180$$

$$\frac{5x}{5} = \frac{170}{5}$$

$$x = 34$$

$$3(34) - 6 = 96^\circ$$

② Find  $\angle ABC$



$$x + 9 + 2x = 90$$

$$x = 27$$

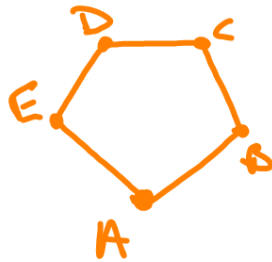
$$\angle = 36^\circ$$

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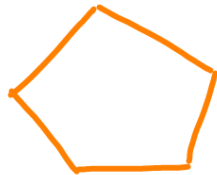
A	80% ↑
B	70
C	60
D	50
E	40
F	30
G	20
H	↓

# 1.6 Name that Polygon

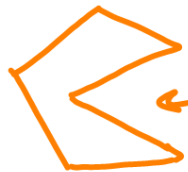
Polygons



- Closed figure
- Endpoints are called vertices (vertex)
- Name ABCDE  
DCBAE



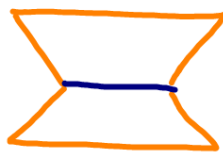
\* Convex



\* Concave  
Caves in

Polygon or not? If so, Convex or concave?

(a)



Not - a line thru it

(b)



Yes!  
Convex

(c)



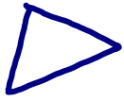



Not - has a curve

(d)



Yes - Concave

# Special Names

<u># Sides</u>	<u>Name</u>	
3	<u>Triangle</u>	
4	<u>Quadrilateral</u>	
5	<u>Pentagon</u>	
6	<u>Hexagon</u>	
7	<u>Heptagon</u>	
8	<u>Octagon</u>	
9	<u>Nonagon</u>	
10	<u>Decagon</u>	
17	17-gon	
n	n-gon	

\* If all sides are equal, is equilateral

\* If all angles are equal, is equiangular

\* If all sides & angles are =, is regular

