

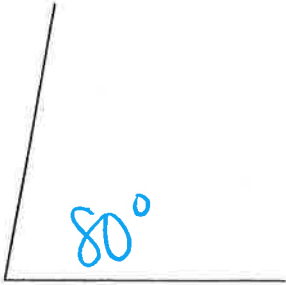
Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

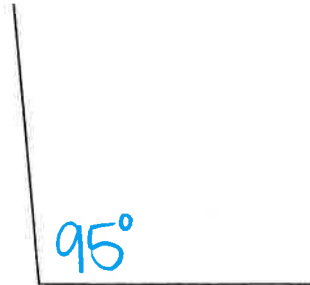
## Angles and Their Measures

Find the measure of each angle to the nearest degree.

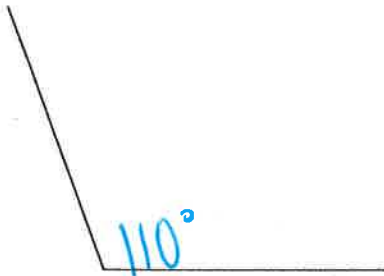
1)



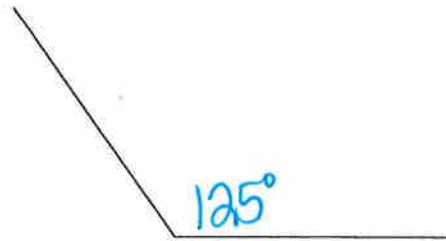
2)



3)



4)

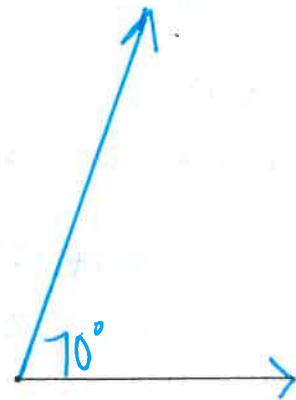


Draw an angle with the given measurement.

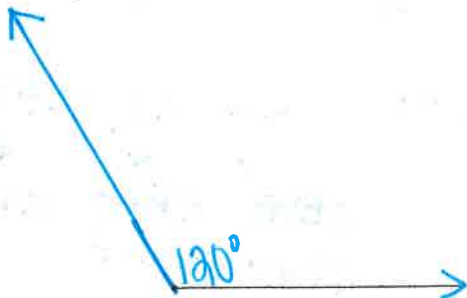
11)  $90^\circ$



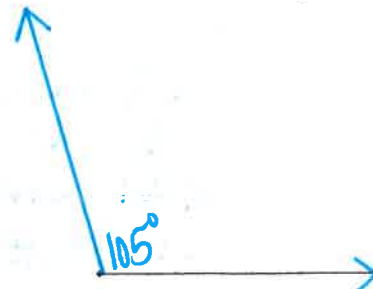
12)  $70^\circ$



13)  $120^\circ$

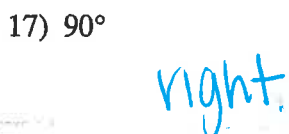
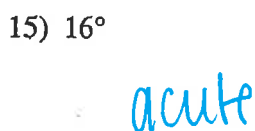
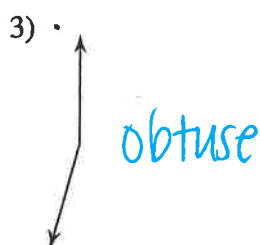
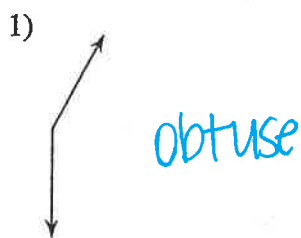


14)  $105^\circ$



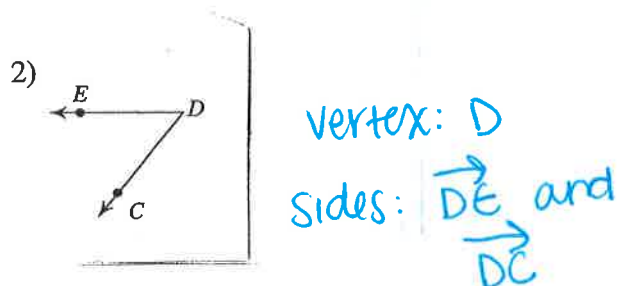
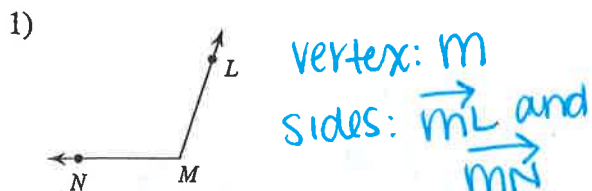
### Classifying Angles

Classify each angle as acute, obtuse, right, or straight.

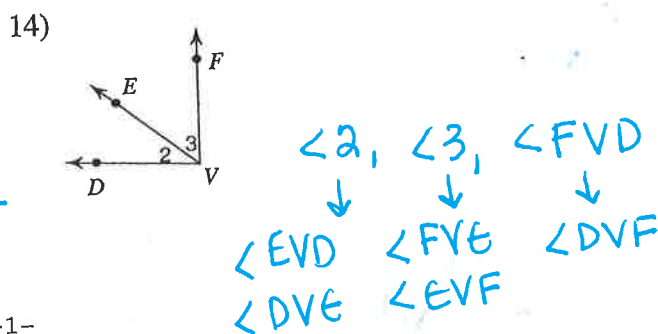
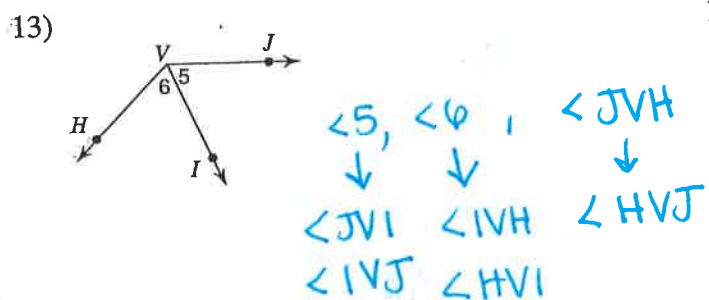


### Naming Angles

Name the vertex and sides of each angle.

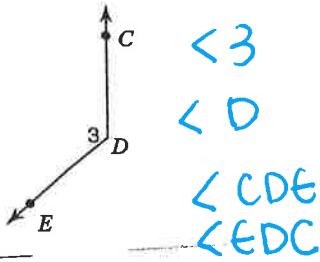


Name all the angles that have V as a vertex.



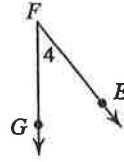
Name each angle in four ways.

5)



$\angle 3$   
 $\angle D$   
 $\angle CDE$   
 $\angle EDC$

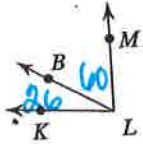
6)



$\angle 4$   
 $\angle F$   
 $\angle EFG$   
 $\angle GFE$

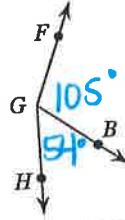
The Angle Addition Postulate

1) Find  $m\angle KLM$  if  $m\angle KLB = 26^\circ$  and  $m\angle BLM = 60^\circ$ .



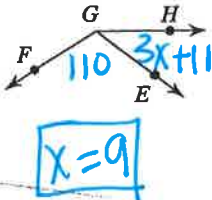
$26 + 60 = 86$   
 $m\angle KLM = 86^\circ$

2) Find  $m\angle FGH$  if  $m\angle FGB = 105^\circ$  and  $m\angle BGH = 54^\circ$ .



$105 + 54 = 159$   
 $m\angle FGH = 159^\circ$

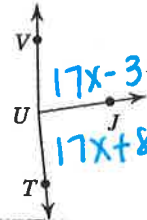
11)  $m\angle HGF = 16x + 4$ ,  $m\angle EGF = 110^\circ$ , and  $m\angle HGE = 3x + 11$ . Find  $x$ .



$110 + 3x + 11 = 16x + 4$   
 $121 + 3x = 16x + 4$   
 $117 + 3x = 16x$   
 $117 = 13x$

$x = 9$

12)  $m\angle VUT = 175^\circ$ ,  $m\angle VUJ = 17x - 3$ , and  $m\angle JUT = 17x + 8$ . Find  $x$ .



$17x - 3 + 17x + 8 = 175$   
 $34x + 5 = 175$   
 $34x = 170$

$x = 5$

Critical thinking questions:

27) Draw a diagram with an acute angle ABC and an obtuse angle DBE so that point D is in the interior of angle ABC.

Various answers possible

example:

