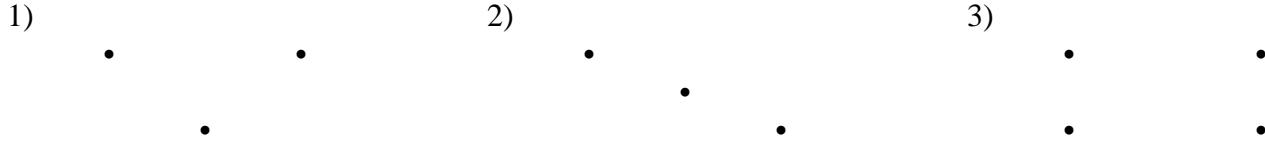


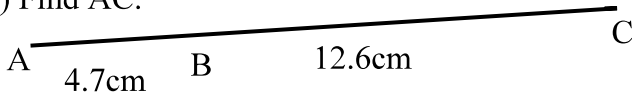
Geometry Development 4.1
Geometry

How many lines are defined by the given points?

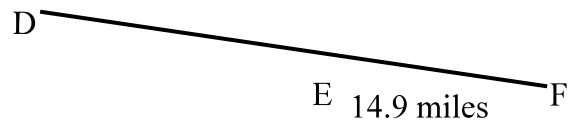


Find the indicated length in numbers 4-7.

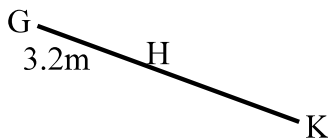
4) Find AC.



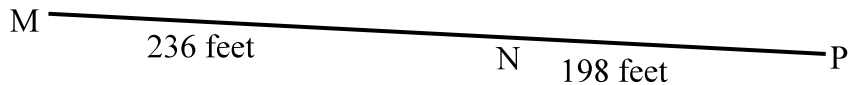
5) $DF = 32.2$ miles. Find DE.



6) $GK = 9m$. Find HK.

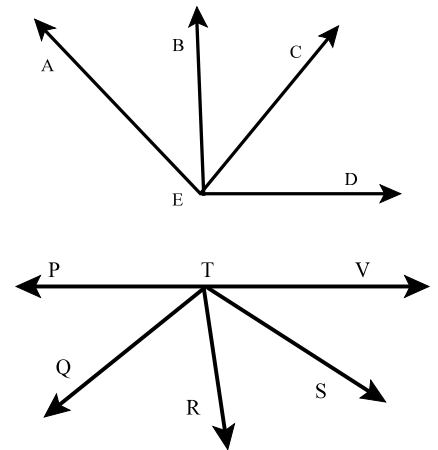


7) Find MP.

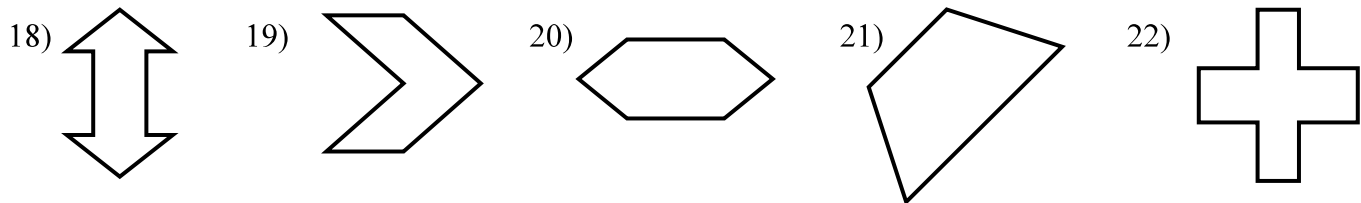


Use the figures at the right to find the angle whose measure is the sum or difference of the measures of the given angles.

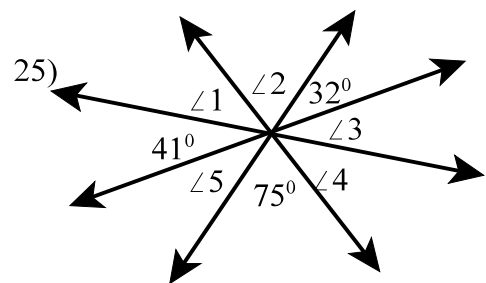
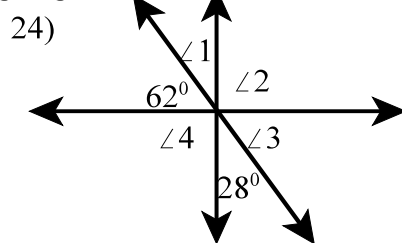
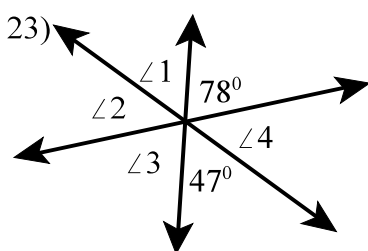
- 8) $m\angle AEB + m\angle BEC =$ 9) $m\angle AEC + m\angle CED =$
 10) $m\angle QTR + m\angle RTS =$ 11) $m\angle RTS + m\angle STV =$
 12) $m\angle AED - m\angle BED =$ 13) $m\angle QTP + m\angle QTS =$
 14) $m\angle PTS - m\angle PTQ =$ 15) $m\angle QTS + m\angle STV =$
 16) $m\angle AEC - m\angle AEB =$ 17) $m\angle RTV - m\angle RTS =$



Identify the following polygons by the number of sides and as concave or convex.



Find the measures of the missing angles.



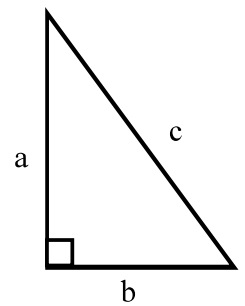
Using the information about the triangle to the right with sides a, b, c, find the missing length.

26) $a = 11, b = 60, c = ?$

27) $a = ?, b = 24, c = 26$

28) $a = 10, b = ?, c = 12$

29) $a = 4, b = 12, c = ?$



Will a triangle with sides of the given lengths be a right triangle? If not, is the triangle acute or obtuse?

30) 85, 77, and 36

31) 32, 54, and 62

32) 39, 80, and 89

Use the figures at the right to find the indicated arc measure.

33) $m\widehat{AB}$

34) $m\widehat{EH}$

35) $m\widehat{AD}$

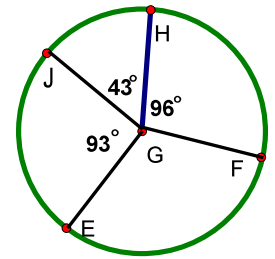
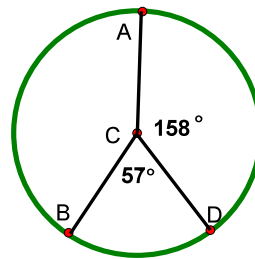
36) $m\widehat{HFE}$

37) $m\widehat{DBA}$

38) $m\widehat{HE}$

39) $m\widehat{ADB}$

40) $m\widehat{FHE}$



Find the circumference of the circle in each problem below in terms of pi and to the nearest tenth.

41) $r = 13$ mm

42) $r = 22$ km

43) $d = 52$ ft

44) $d = 29$ in

Given the circumference of a circle, find its' radius and diameter to the nearest tenth.

45) $c = 36\pi$ m

46) $c = 28\pi$ yds

47) $c = 50$ ft

48) $c = 248$ cm

Given the measure of an arc, name its' central and inscribed angles and give their measures.

