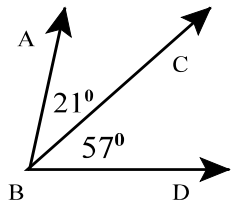
Angle Equations

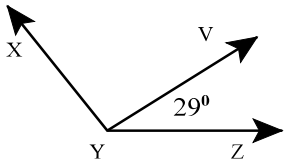
Geometry

Given the information in each problem, find the measure of the indicated angle.

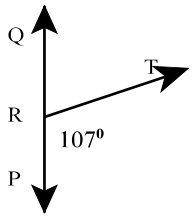
1) Find m∠ABD?



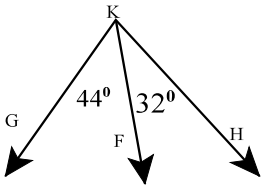
2) m∠XYZ=124⁰. Find m∠XYV.



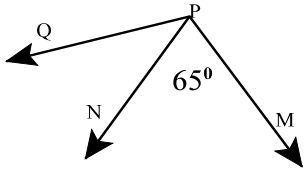
3) Find m∠QRT.



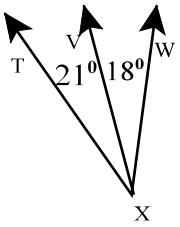
4) Find m∠GKH.



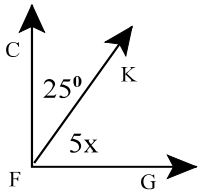
5) m∠QPM=106⁰. Find m∠QPN.



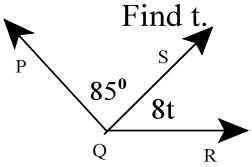
6) Find m∠TXW.



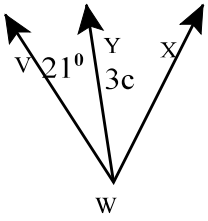
7) ∠CFG is a right angle. Find x.



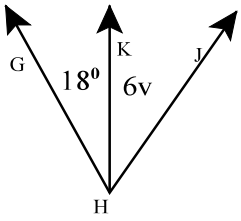
8) ∠PQR measures 133⁰. Find t.



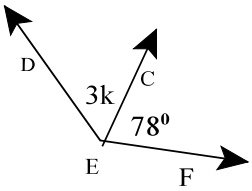
9) m∠VWX = 54⁰. Find c.



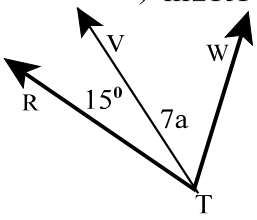
10) m∠GHJ=60⁰. Find v.



11) m∠DEF=132⁰. Find k

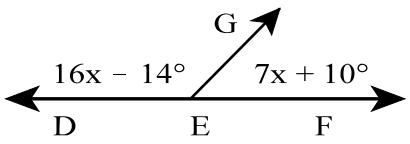


12) m∠RTW=43⁰. Find a.

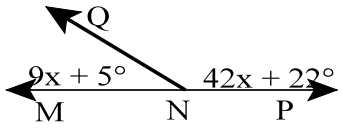


Find the measures of all angles.

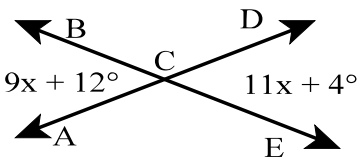
13)



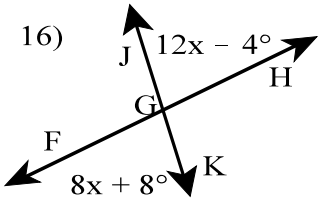
14)



15)

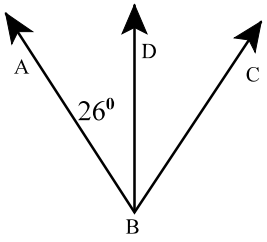


16)

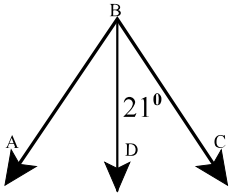


In each figure below, $\overrightarrow{BD}$ is the angle bisector of ∠ABC.

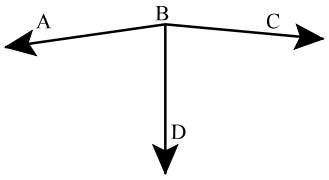
17) Find m∠ABC.



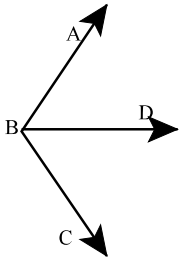
18) Find m∠ABC.



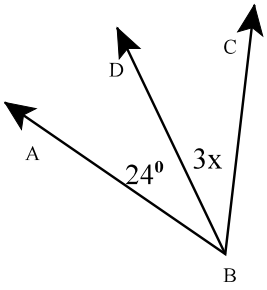
19) m∠ABC=168^0. Find m∠ABD and m∠CBD.



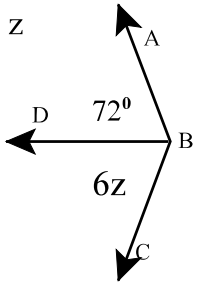
20) m∠ABC = 126^0. Find m∠ABD and m∠CBD.



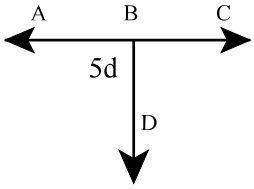
21) Find x.



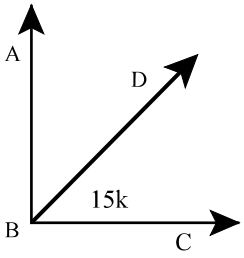
22) Find z



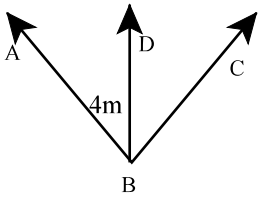
23) ∠ABC is a straight angle. Find d.



24) ∠ABC is a right angle. Find k.



25) m∠ABC=88^0. Find m.



26) ∠1 and ∠2 are complementary angles. ∠1 is four times the measure of ∠2. What do both angles measure?

27) ∠C and ∠D are supplementary angles. ∠C is 32° greater than ∠D. What do both angles measure?