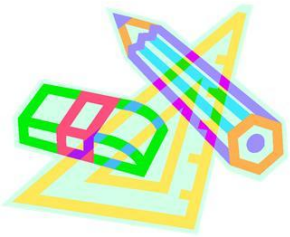
Construction Worksheet #1



Complete the following on a separate sheet of paper.

1.

ABCD is a quadrilateral. The line segment [BD] is called a **diagonal**.

a Name the four sides of the quadrilateral.

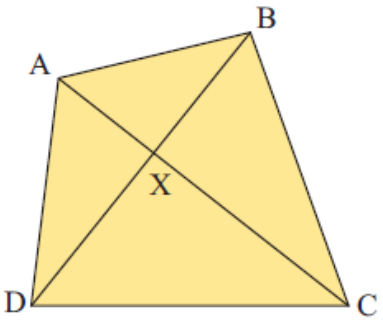
b Name the two diagonals of the quadrilateral.

c At what point do the diagonals meet?

d How many line segments meet at A?

e What can be said about points A, X and C?

f What can be said about the line segments [AB], [DB] and [CB]?

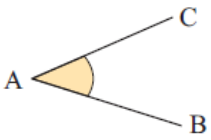


2.

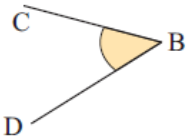
Match the names to the correct angles:

a $A\hat{B}C$ **b** $C\hat{A}B$ **c** $B\hat{C}A$ **d** $C\hat{B}D$

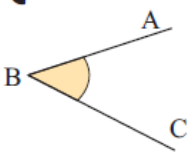
A



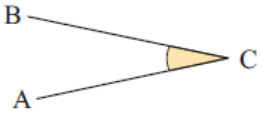
B



C



D

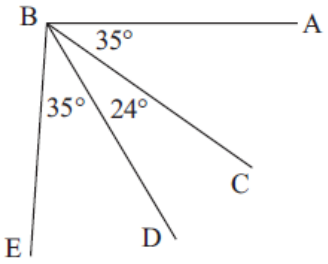


3.

Find the size of these angles without your protractor:

a $A\hat{B}C$ **b** $D\hat{B}C$

c $A\hat{B}D$ **d** $A\hat{B}E$



4.

Add the following pairs of angles and state whether they are complementary, supplementary, or neither:

a 20^o, 70^o **b** 30^o, 150^o **c** 110^o, 40^o

d 47^o, 43^o **e** 107^o, 63^o **f** 35^o, 55^o

5.

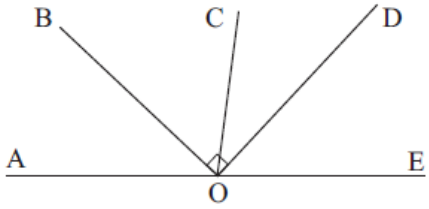
Classify the following angle pairs as complementary, supplementary or neither:

a $B\hat{O}C$ and $C\hat{O}D$

b $A\hat{O}C$ and $C\hat{O}E$

c $C\hat{O}D$ and $D\hat{O}E$

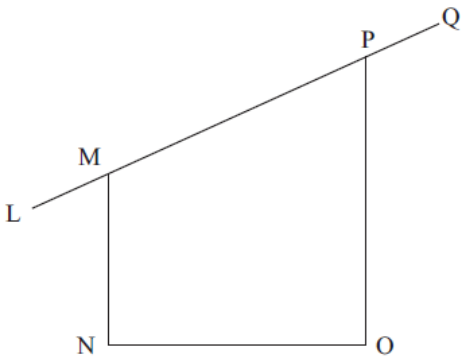
d $A\hat{O}B$ and $B\hat{O}E$

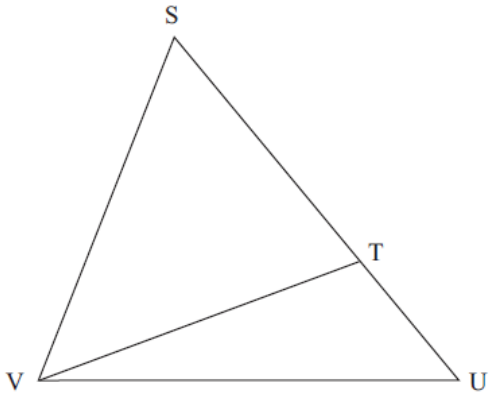


6 Use a protractor to measure the named angles:

a **i** $P\hat{M}N$ **ii** $O\hat{P}L$ **iii** $P\hat{O}N$

b **i** $V\hat{T}U$ **ii** reflex $V\hat{S}T$ **iii** reflex $T\hat{V}U$

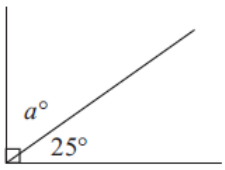




7.

Find the value of the unknown in:

a



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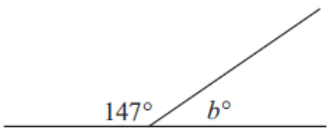
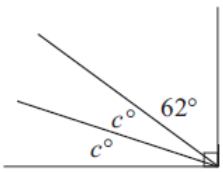


c



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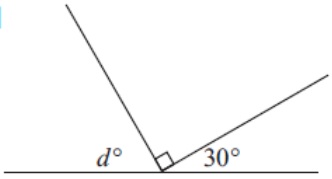
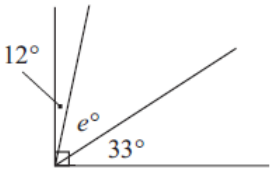


e



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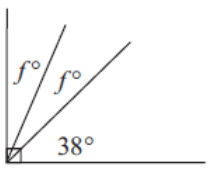

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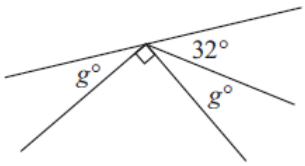

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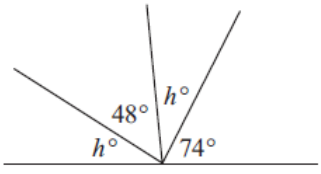

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