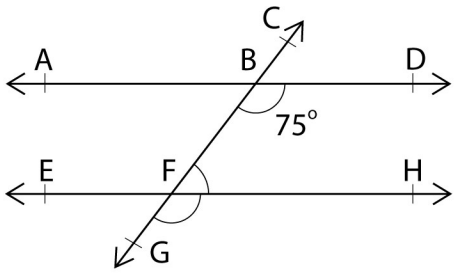
Parallel Lines Cut by a Transversal Practice

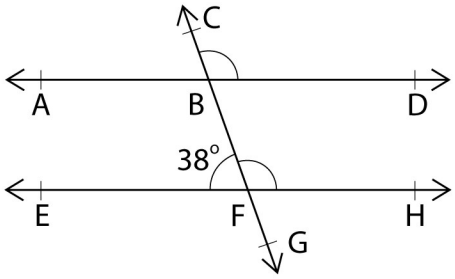
A) Find the measure of each of the specified angles in the following.

1)



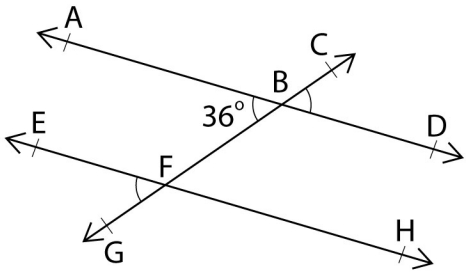
∠HFC = _____ ∠HFG = _____

2)



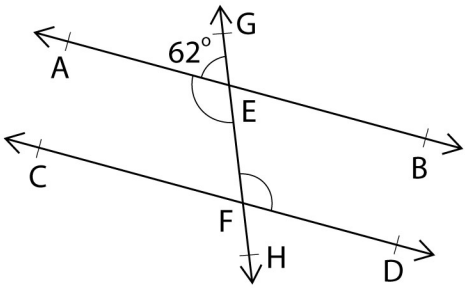
∠HFC = _____ ∠DBC = _____

3)



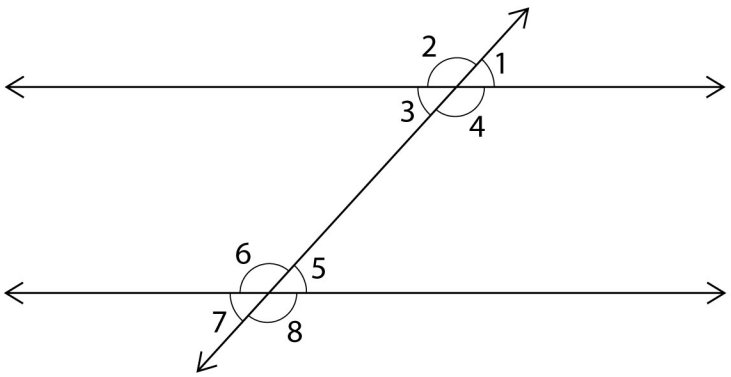
∠DBC = _____ ∠EFG = _____

4)



∠AEH = _____ ∠DFG = _____

B) Decide whether each statement is true or false. If the statement is true, write (T) and if it is false, write (F).



1) ∠1 and ∠2 are vertically opposite angles.

2) ∠1 and ∠5 are corresponding angles.

3) ∠2 and ∠5 are alternate exterior angles.

4) ∠4 and ∠6 are alternate interior angles.

5) ∠3 and ∠6 are consecutive interior angles.

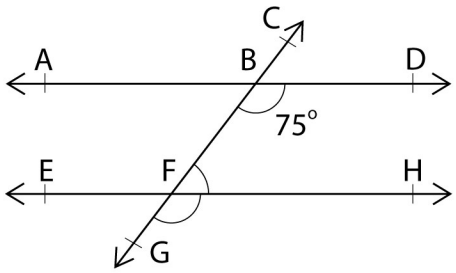
6) ∠3 is congruent to ∠8.

Parallel Lines Cut by a Transversal Practice

A) Find the measure of each of the specified angles in the following.

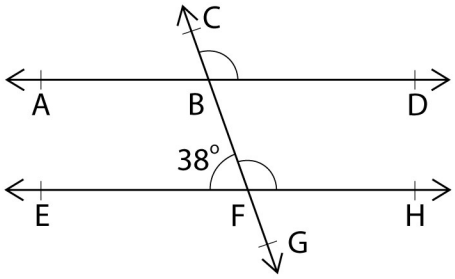
Answers

1)



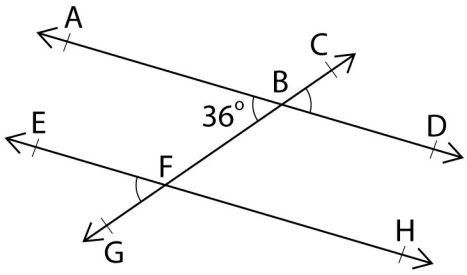
∠HFC = 105° ∠HFG = 75°

2)



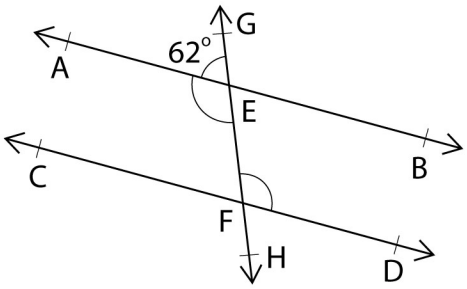
∠HFC = 142° ∠DBC = 142°

3)



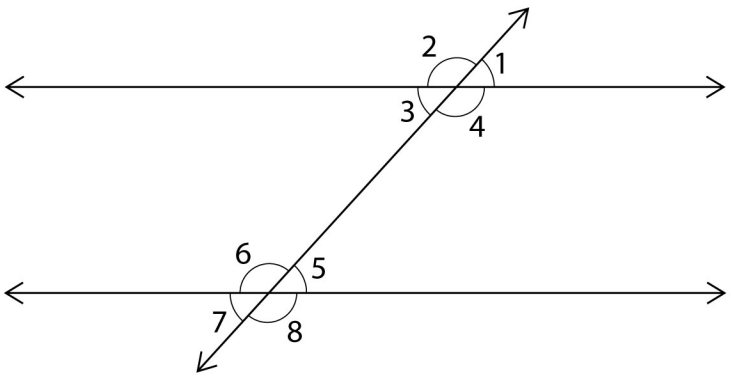
∠DBC = 36° ∠EFG = 36°

4)



∠AEH = 118° ∠DFG = 118°

B) Decide whether each statement is true or false. If the statement is true, write (T) and if it is false, write (F).



1) ∠1 and ∠2 are vertically opposite angles.	F
2) ∠1 and ∠5 are corresponding angles.	T
3) ∠2 and ∠5 are alternate exterior angles.	F
4) ∠4 and ∠6 are alternate interior angles.	T
5) ∠3 and ∠6 are consecutive interior angles.	T
6) ∠3 is congruent to ∠8.	F