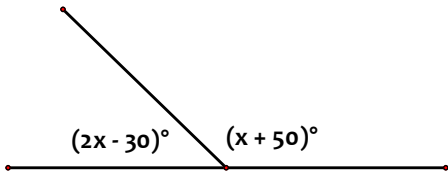


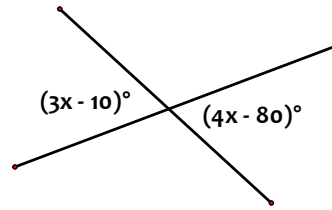
### Worksheet #6 – Angle Problems

Find the values for each variable and give reasons for your answer.

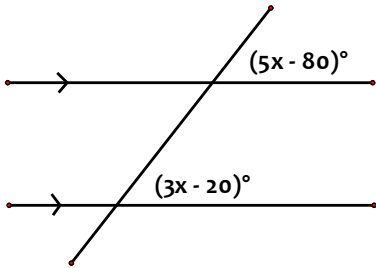
1.



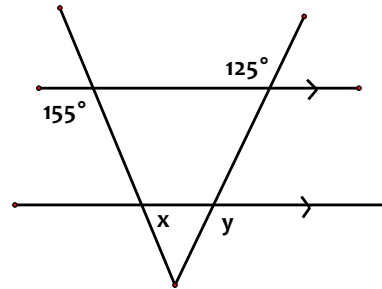
2.



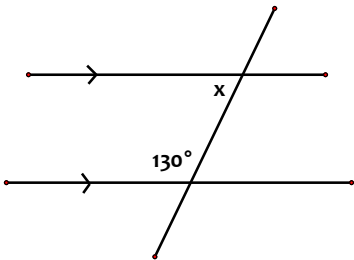
3.



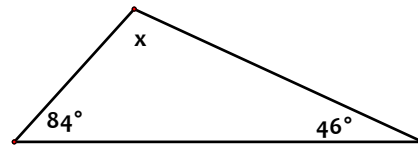
4.



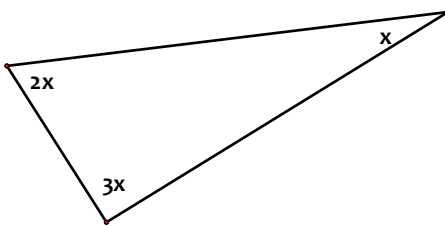
5.



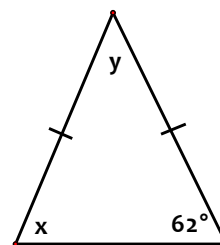
6.



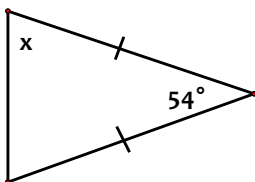
7.



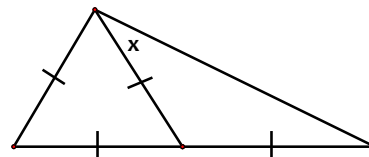
8.



9.



10.



### Answers:

1.  $x = 53.3^\circ$   
7.  $x = 30^\circ$

2.  $x = 70^\circ$   
8.  $x = 62^\circ, y = 56^\circ$

3.  $x = 30^\circ$

4.  $x = 25^\circ, y = 125^\circ$   
9.  $x = 63^\circ$

5.  $x = 50^\circ$   
10.  $x = 30^\circ$

6.  $x = 50^\circ$