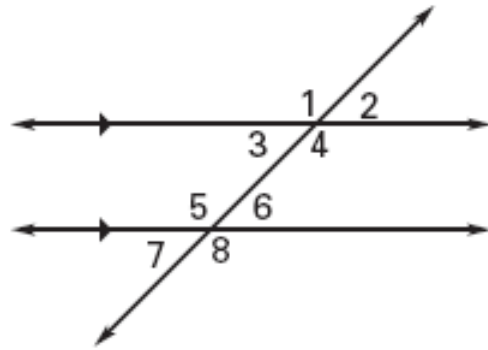


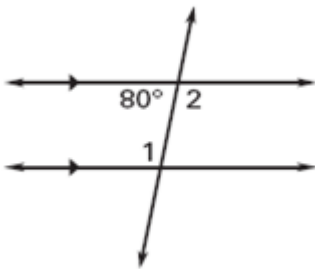
Find the angle measure. Tell which postulate or theorem you used.

1. If $m\angle 1 = 114^\circ$, then $m\angle 5 =$ _____?
2. If $m\angle 3 = 68^\circ$, then $m\angle 6 =$ _____?
3. If $m\angle 7 = 64^\circ$, then $m\angle 2 =$ _____?
4. If $m\angle 5 = 112^\circ$, then $m\angle 3 =$ _____?

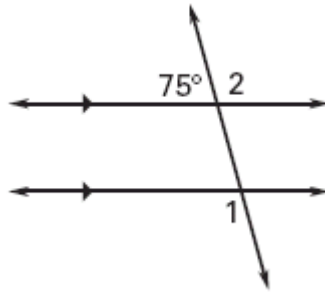


Find $m\angle 1$ and $m\angle 2$.

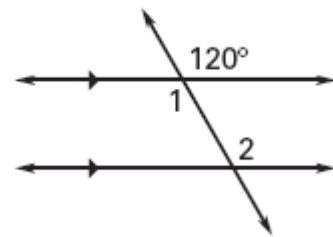
5.



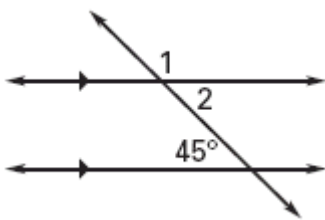
6.



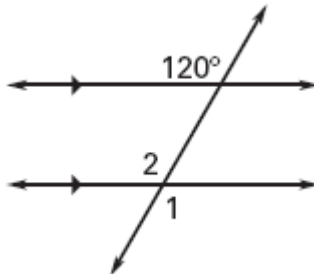
7.



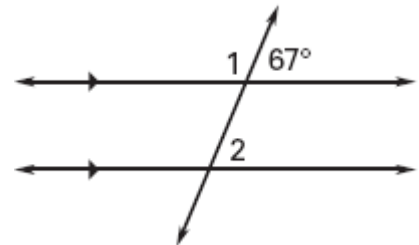
8.



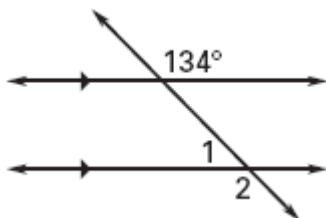
9.



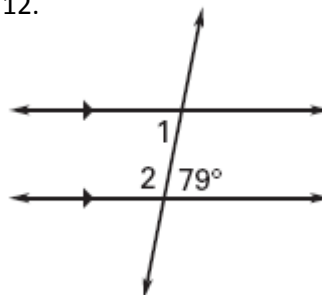
10.



11.

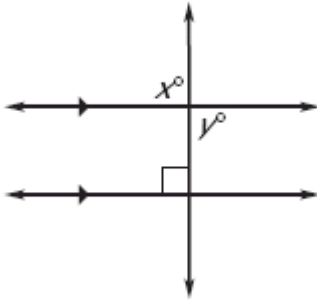


12.

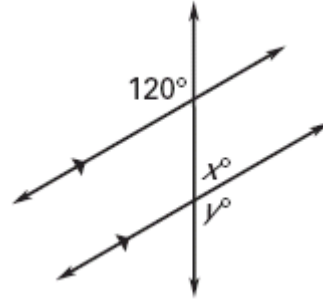


Find the values of x and y .

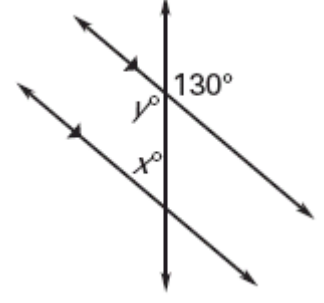
13.



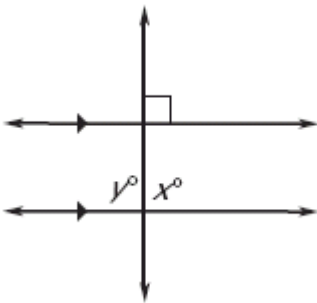
14.



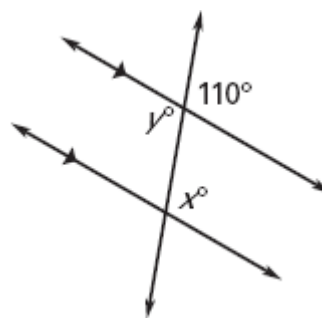
15.



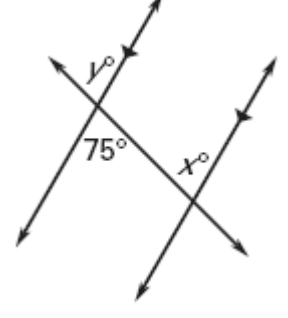
16.



17.

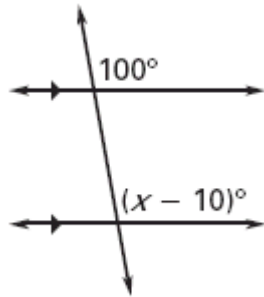


18.

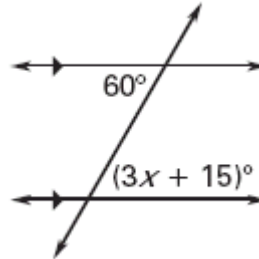


Find the value of x .

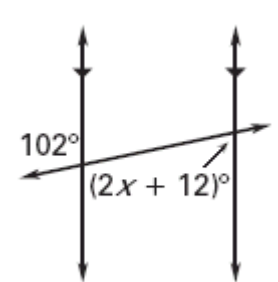
19.



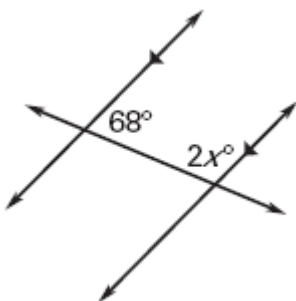
20.



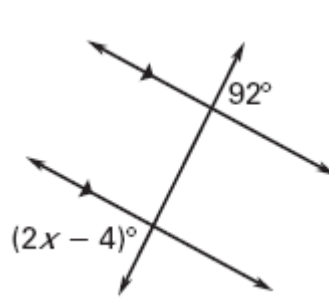
21.



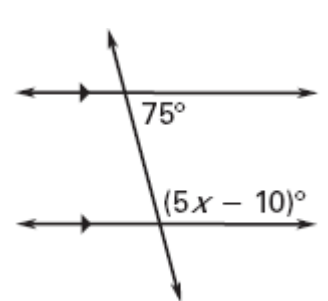
22.



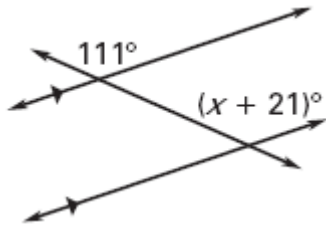
23.



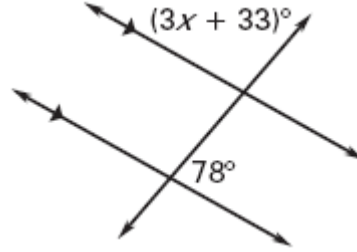
24.



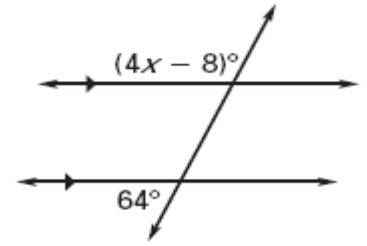
25.



26.

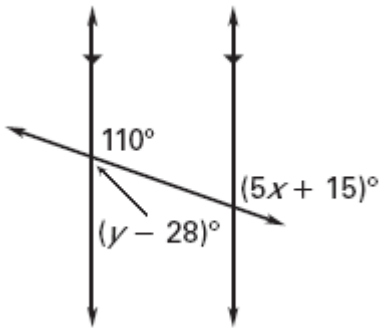


27.

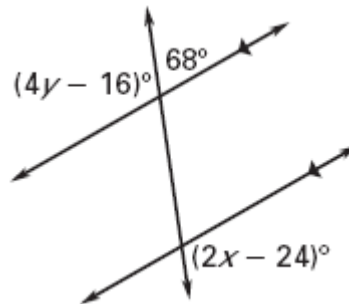


Find the values of x and y.

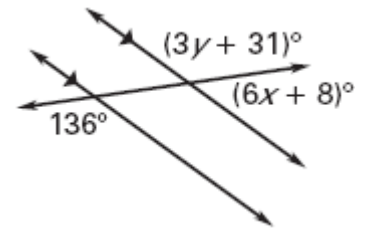
28.



29.



30.



Answer Key

1.) 114° , corresponding angles postulate

2.) 68° , alternate interior angles theorem

3.) 64° , alternate exterior angles theorem

4.) 68° , consecutive interior angles theorem

5.) $m\angle 1 = 100^\circ, m\angle 2 = 100^\circ$

6.) $m\angle 1 = 105^\circ, m\angle 2 = 105^\circ$

7.) $m\angle 1 = 120^\circ, m\angle 2 = 120^\circ$

8.) $m\angle 1 = 135^\circ, m\angle 2 = 45^\circ$

9.) $m\angle 1 = 120^\circ, m\angle 2 = 120^\circ$

10.) $m\angle 1 = 113^\circ, m\angle 2 = 67^\circ$

11.) $m\angle 1 = 46^\circ, m\angle 2 = 134^\circ$

12.) $m\angle 1 = 79^\circ, m\angle 2 = 101^\circ$

13.) $x = 90, y = 90$

14.) $x = 60, y = 120$

15.) $x = 50, y = 130$

16.) $x = 90, y = 90$

17.) $x = 110, y = 110$

18.) $x = 75, y = 75$

19.) $x = 110$

20.) $x = 15$

21.) $x = 33$

22.) $x = 56$

23.) $x = 48$

24.) $x = 23$

25.) $x = 90$

26.) $x = 23$

27.) $x = 31$

28.) $x = 19, y = 98$

29.) $x = 68, y = 32$

30.) $x = 6, y = 35$