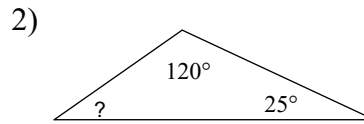
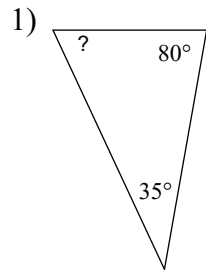
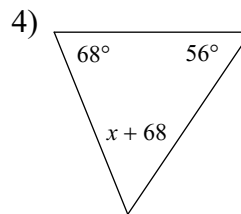
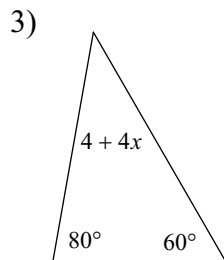


Unit 3

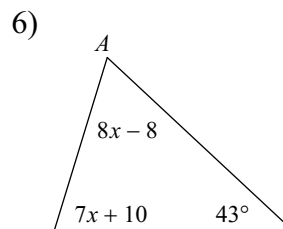
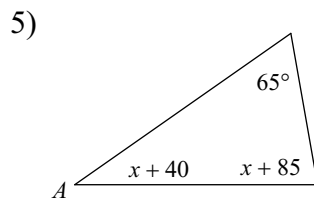
Find the measure of each angle indicated.



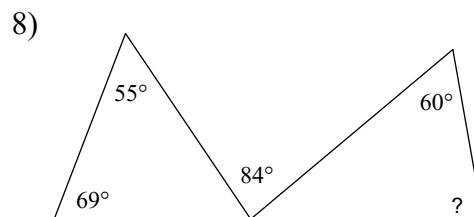
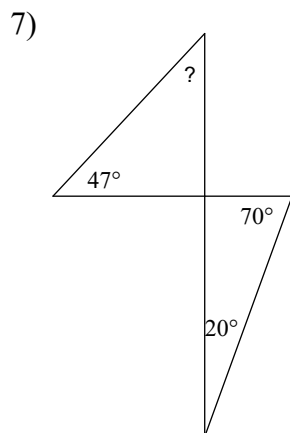
Solve for  $x$ .



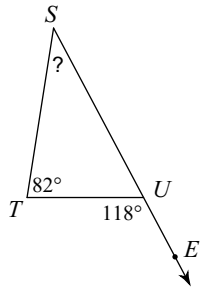
Find the measure of angle A.



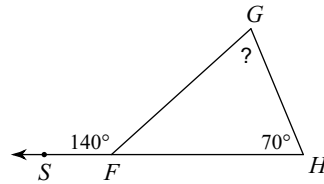
Find the measure of each angle indicated.



9)

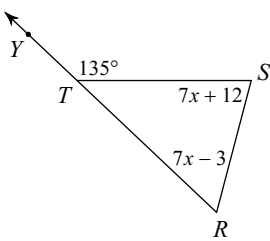


10)

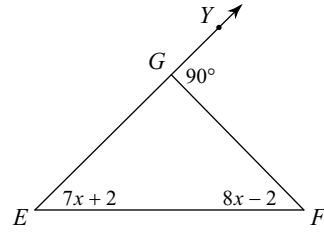


**Solve for  $x$ .**

11)

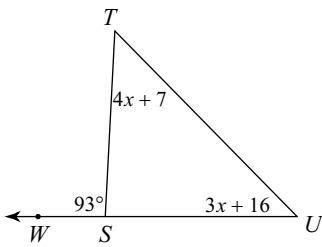


12)

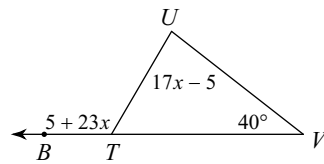


**Find the measure of the angle indicated.**

13) Find  $m\angle U$ .

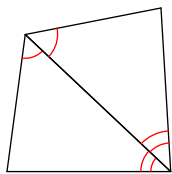


14) Find  $m\angle U$ .

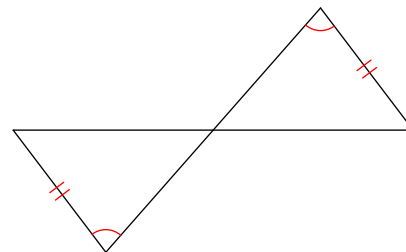


**State if the two triangles are congruent. If they are, state how you know.**

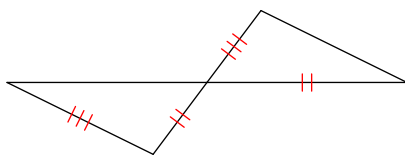
15)

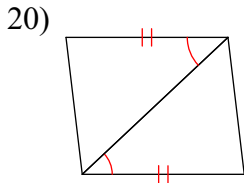
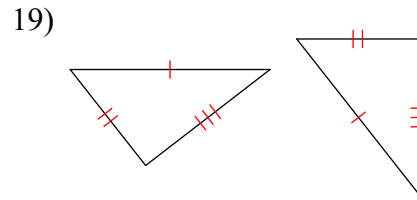
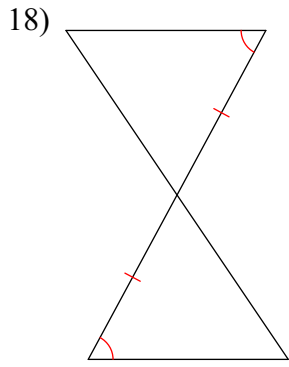


16)



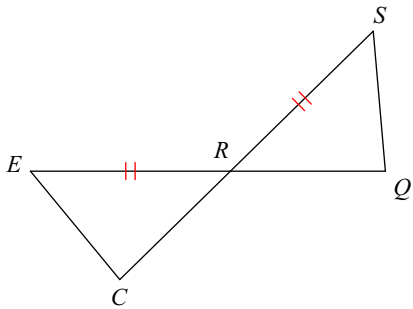
17)



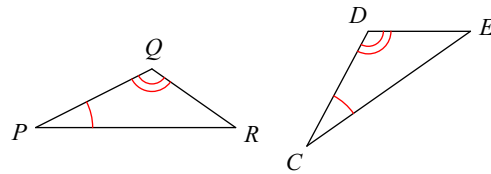


**State what additional information is required in order to know that the triangles are congruent for the reason given.**

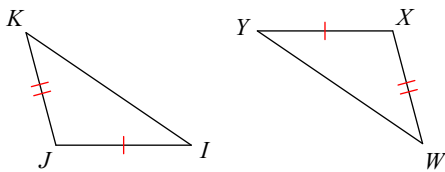
21) AAS



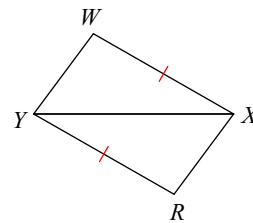
22) ASA



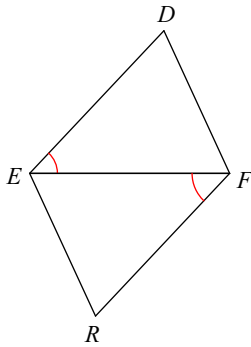
23) SSS



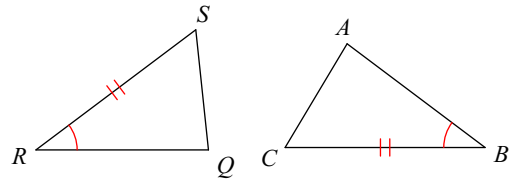
24) SAS



25) ASA

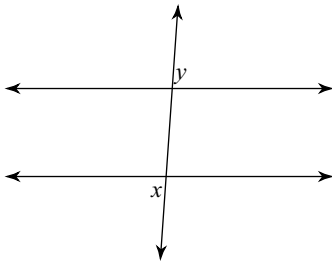


26) AAS

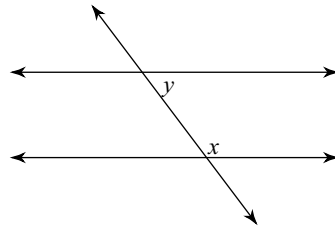


Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, vertical, or adjacent.

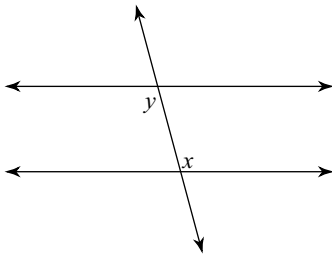
27)



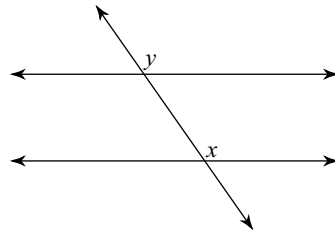
28)



29)

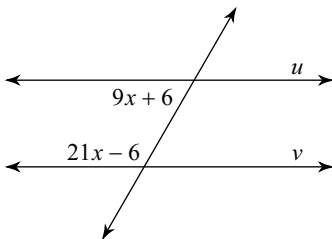


30)

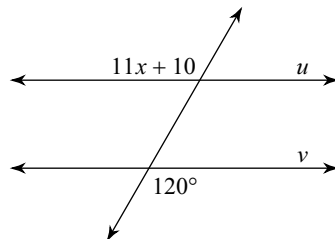


Find the value of  $x$  that makes lines  $u$  and  $v$  parallel.

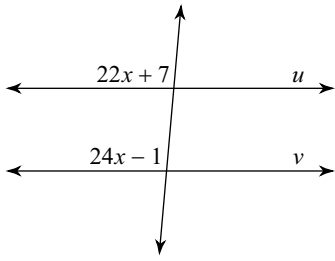
31)



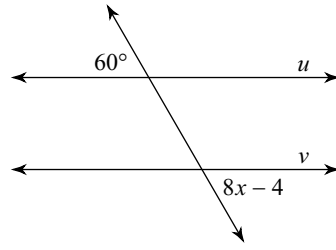
32)



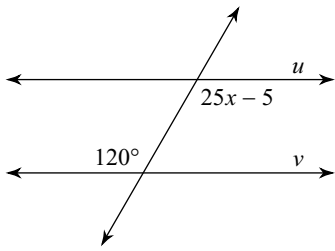
33)



34)



35)



## Answers to Unit 3 (ID: 1)

- |                                   |   |   |                                   |
|-----------------------------------|---|---|-----------------------------------|
| 1) $65^\circ$                     | 2) $35^\circ$                           | 3) 9                                    | 4) -12                            |
| 5) $35^\circ$                     | 6) $64^\circ$                           | 7) $43^\circ$                           | 8) $80^\circ$                     |
| 9) $36^\circ$                     | 10) $70^\circ$                          | 11) 9                                   | 12) 6                             |
| 13) $46^\circ$                    | 14) $80^\circ$                          | 15) ASA                                 | 16) AAS                           |
| 17) Not congruent                 | 18) $\overline{ASA}$                    | 19) $\overline{SSS}$                    | 20) SAS                           |
| 21) $\angle Q \cong \angle C$     | 22) $\overline{PQ} \cong \overline{CD}$ | 23) $\overline{KI} \cong \overline{WY}$ | 24) $\angle WXY \cong \angle RYX$ |
| 25) $\angle DFE \cong \angle REF$ | 26) $\angle Q \cong \angle A$           | 27) alternate exterior                  |                                   |
| 28) consecutive interior          | 29) alternate interior                  | 30) corresponding                       |                                   |
| 31) 6                             | 32) 10                                  | 33) 4                                   | 34) 8                             |
| 35) 5                             |   |   |                                   |