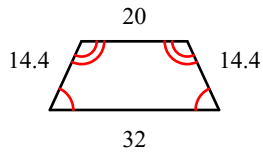
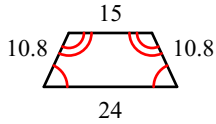


June 8, 2015

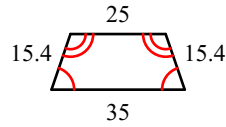
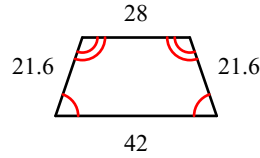
Date \_\_\_\_\_ Period \_\_\_\_\_

**State if the polygons are similar.**

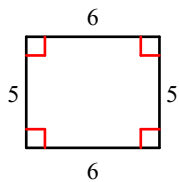
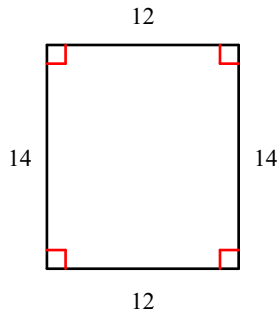
1)



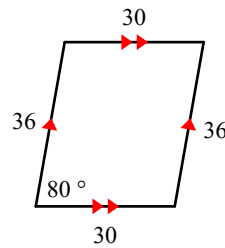
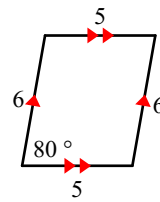
2)



3)

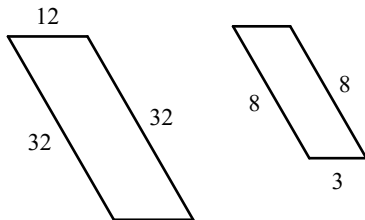


4)

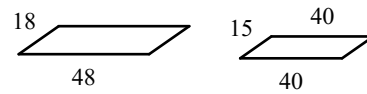


**The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.**

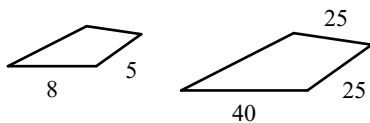
5)



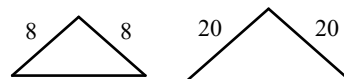
6)



7)

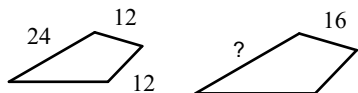


8)

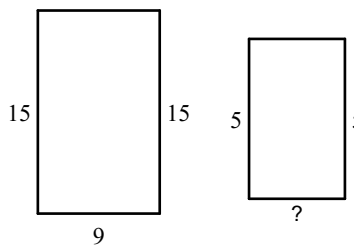


The polygons in each pair are similar. Find the missing side length.

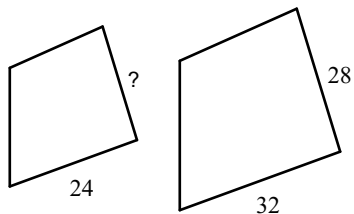
9)



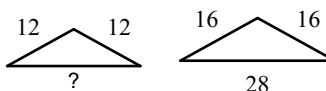
10)



11)

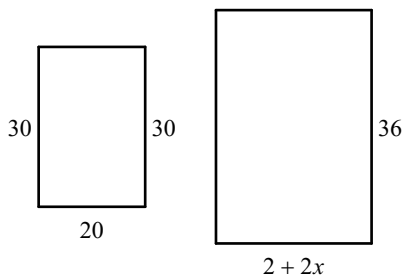


12)

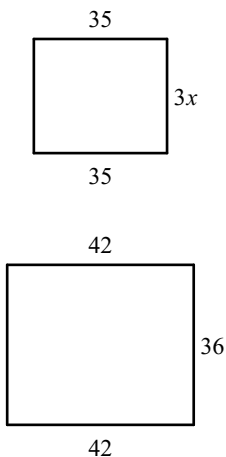


Solve for  $x$ . The polygons in each pair are similar.

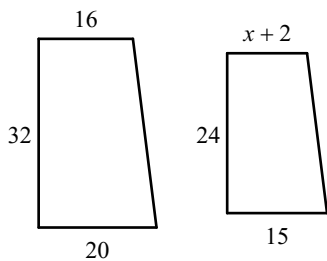
13)



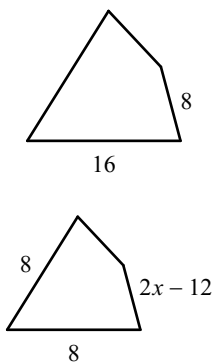
14)



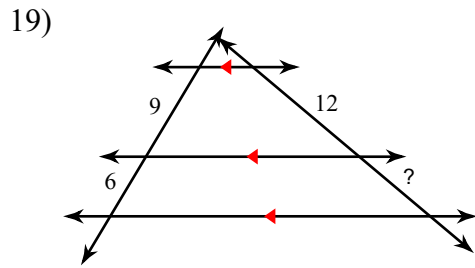
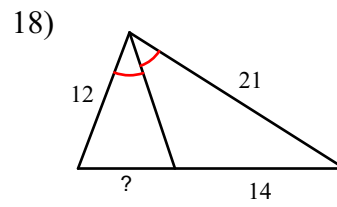
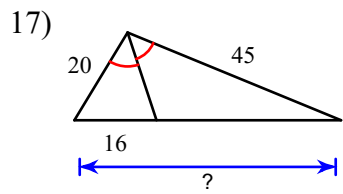
15)



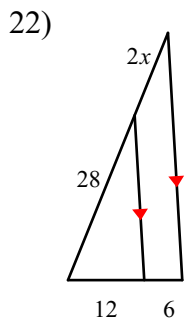
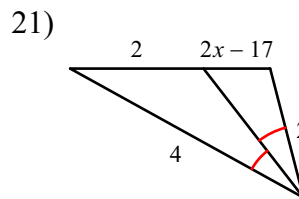
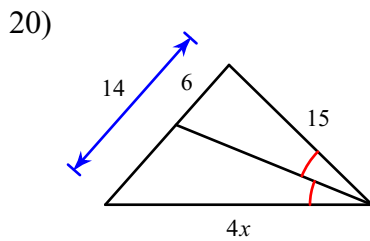
16)



**Find the missing length indicated.**



**Solve for  $x$ .**



**Dilate each point by the scale factor.**

23)  $(-2, 4)$  SF: 6

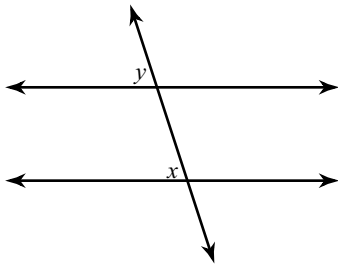
24)  $(9, 18)$  SF:  $1/3$

25)  $(-10, -12)$  SF:  $.5$

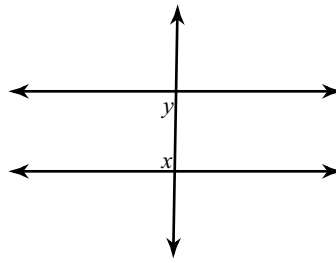
26)  $(1, 4)$  SF: 2.5

Identify each pair of angles as corresponding, alternate interior, alternate exterior, same-side interior, vertical, or adjacent.

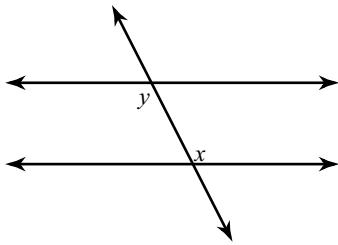
27)



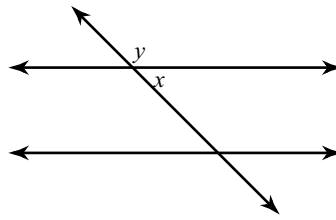
28)



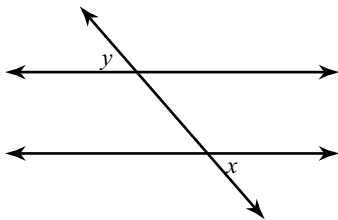
29)



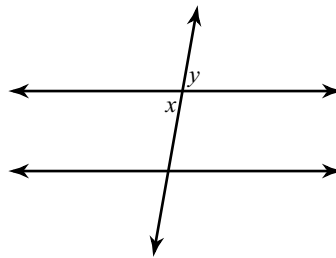
30)



31)

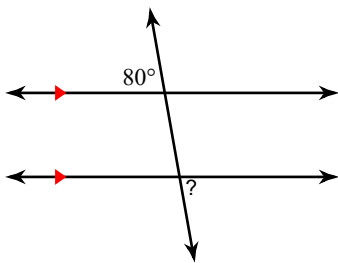


32)

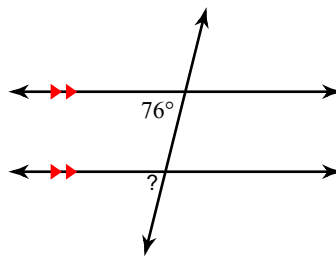


Find the measure of each angle indicated.

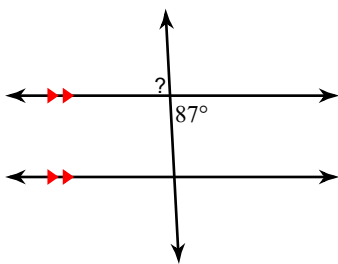
33)



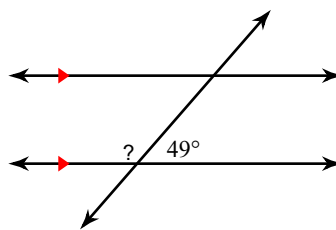
34)



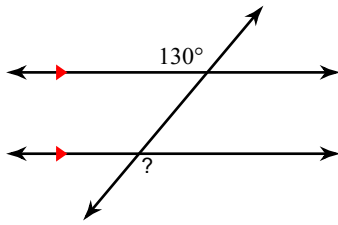
35)



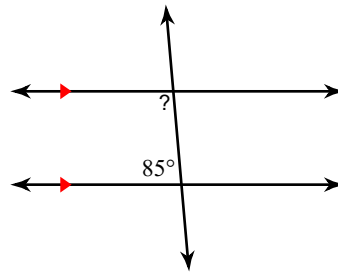
36)



37)

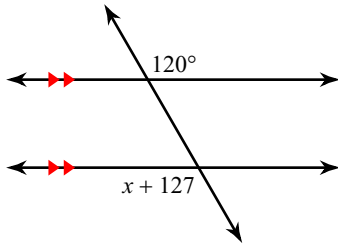


38)

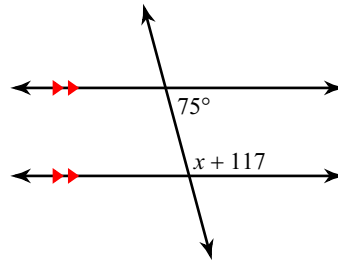


**Solve for  $x$ .**

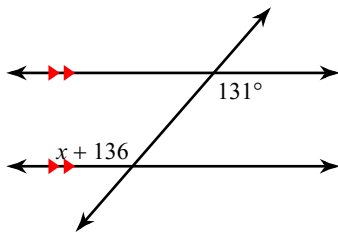
39)



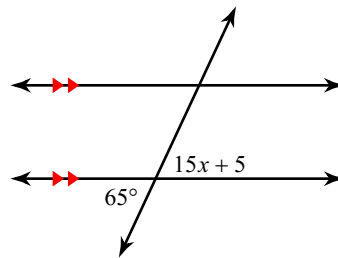
40)



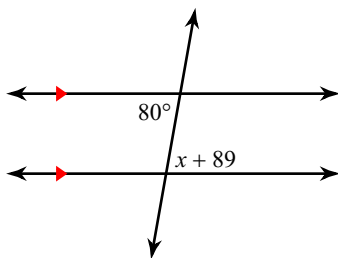
41)



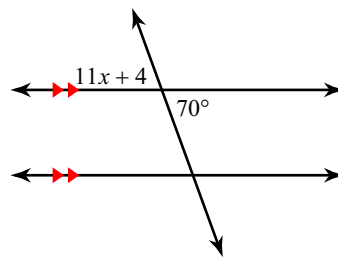
42)



43)

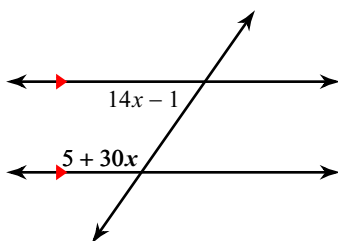


44)

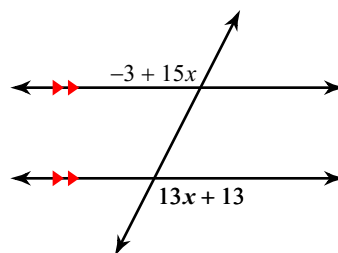


**Find the measure of the angle indicated in bold.**

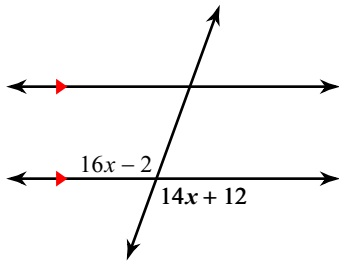
45)



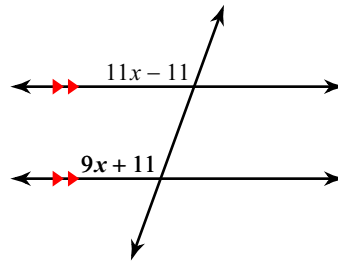
46)



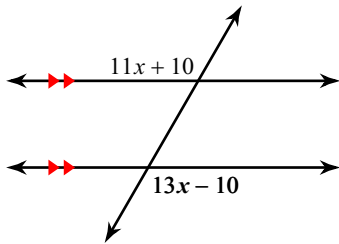
47)



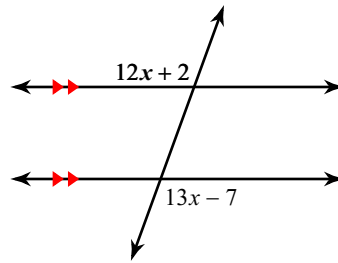
48)



49)

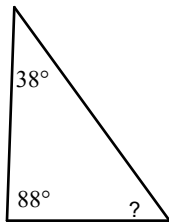


50)

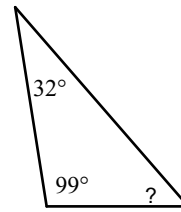


**Find the measure of each angle indicated.**

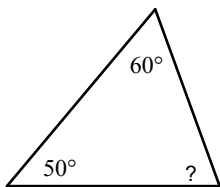
51)



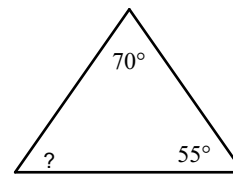
52)



53)

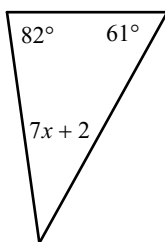


54)

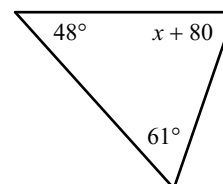


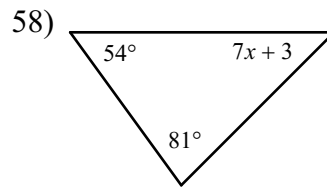
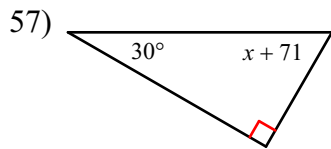
**Solve for x.**

55)

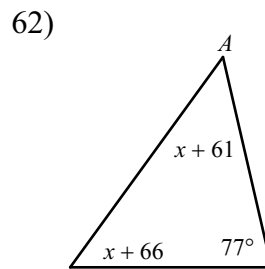
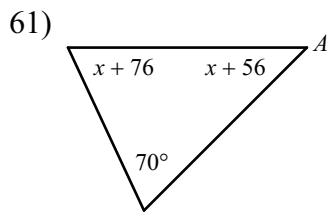
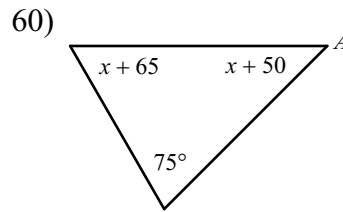
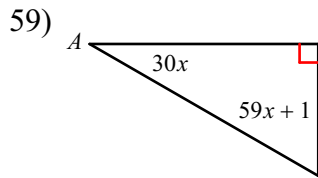


56)

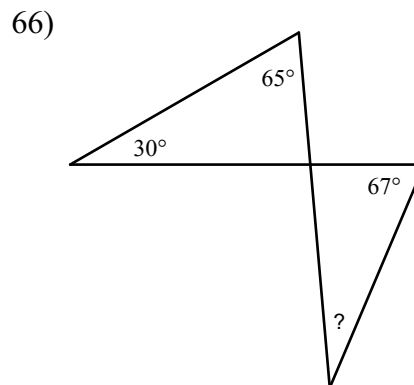
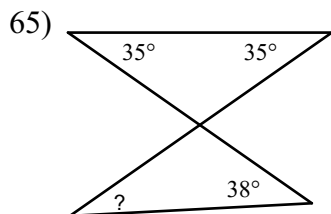
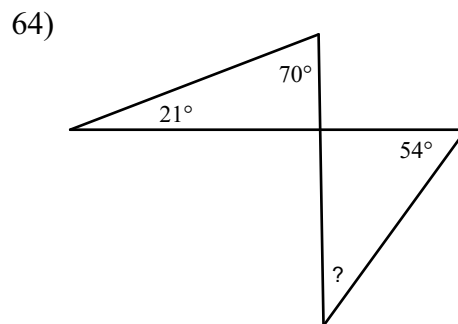
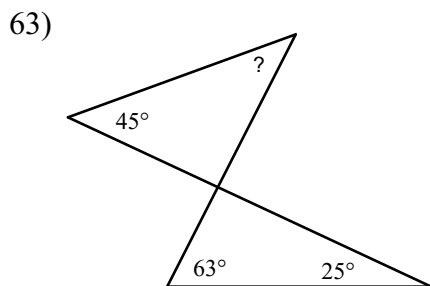




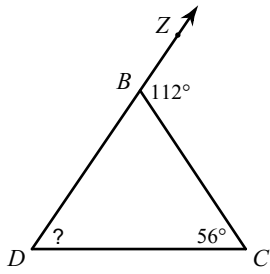
**Find the measure of angle A.**



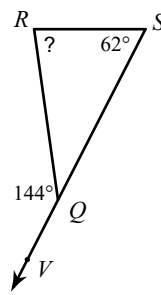
**Find the measure of each angle indicated.**



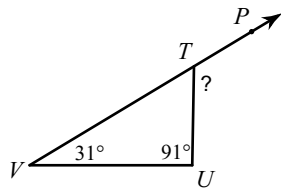
67)



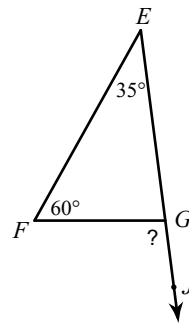
68)



69)

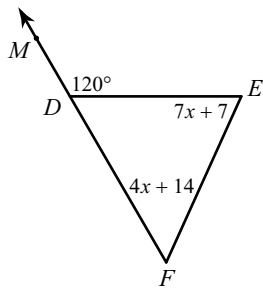


70)

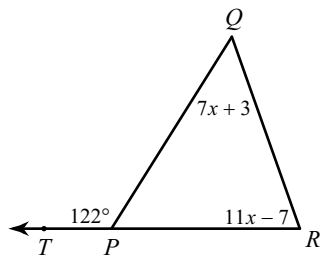


**Solve for  $x$ .**

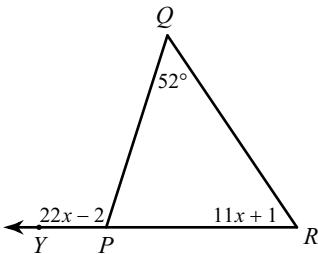
71)



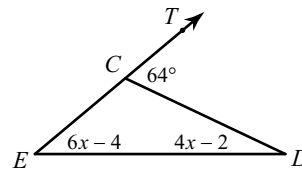
72)



73)



74)



**State if the three numbers can be the measures of the sides of a triangle.**

75) 12, 8, 23

76) 7, 10, 12

77) 6, 7, 10

78) 6, 12, 8



## Answers to June 8, 2015 (ID: 1)

- |                        |                 |                        |                        |
|------------------------|-----------------|------------------------|------------------------|
| 1) similar             | 2) not similar  | 3) not similar         | 4) similar             |
| 5) 1 : 4               | 6) 5 : 6        | 7) 1 : 5               | 8) 2 : 5               |
| 9) 32                  | 10) 3           | 11) 21                 | 12) 21                 |
| 13) 11                 | 14) 10          | 15) 10                 | 16) 8                  |
| 17) 52                 | 18) 8           | 19) 8                  | 20) 5                  |
| 21) 9                  | 22) 7           | 23) (-12, 24)          | 24) (3,6)              |
| 25) (-5,-6)            | 26) (2.5, 10)   | 27) corresponding      | 28) same-side interior |
| 29) alternate interior | 30) adjacent    | 31) alternate exterior | 32) vertical           |
| 33) $80^\circ$         | 34) $76^\circ$  | 35) $87^\circ$         | 36) $131^\circ$        |
| 37) $130^\circ$        | 38) $95^\circ$  | 39) -7                 | 40) -12                |
| 41) -5                 | 42) 4           | 43) -9                 | 44) 6                  |
| 45) $125^\circ$        | 46) $117^\circ$ | 47) $110^\circ$        | 48) $110^\circ$        |
| 49) $120^\circ$        | 50) $110^\circ$ | 51) $54^\circ$         | 52) $49^\circ$         |
| 53) $70^\circ$         | 54) $55^\circ$  | 55) 5                  | 56) -9                 |
| 57) -11                | 58) 6           | 59) $30^\circ$         | 60) $45^\circ$         |
| 61) $45^\circ$         | 62) $49^\circ$  | 63) $43^\circ$         | 64) $37^\circ$         |
| 65) $32^\circ$         | 66) $28^\circ$  | 67) $56^\circ$         | 68) $82^\circ$         |
| 69) $122^\circ$        | 70) $95^\circ$  | 71) 9                  | 72) 7                  |
| 73) 5                  | 74) 7           | 75) No                 | 76) Yes                |
| 77) Yes                | 78) Yes         |                        |                        |