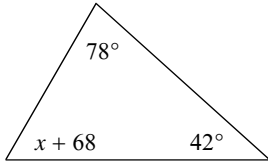


# Homework - 3.2 Triangle Problems

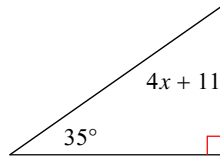
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**Solve for x.**

1)

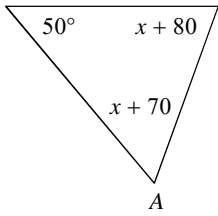


2)



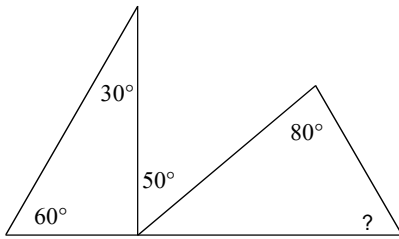
**Find the measure of angle A.**

3)

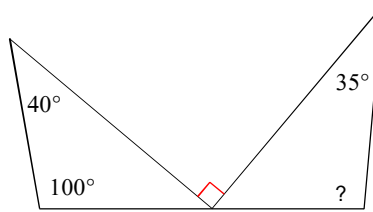


**Find the measure of each angle indicated.**

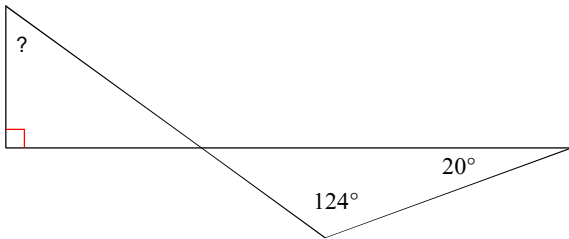
4)



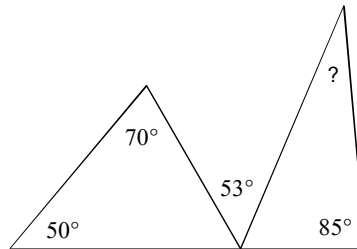
5)



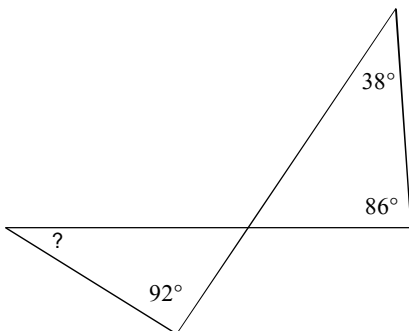
6)



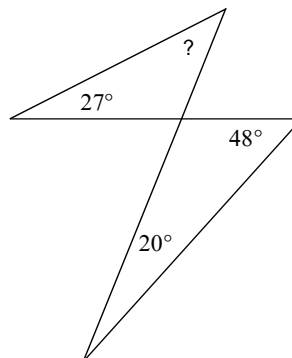
7)



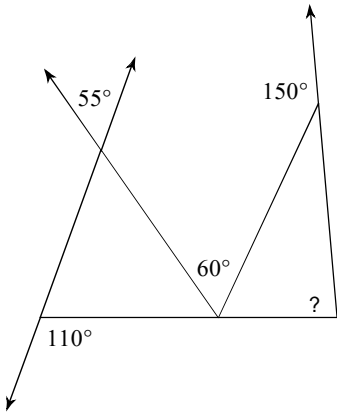
8)



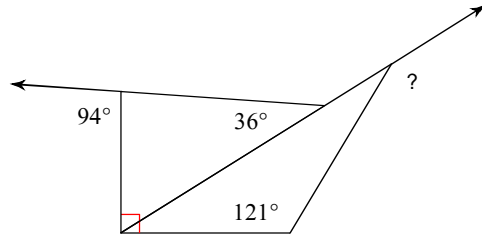
9)



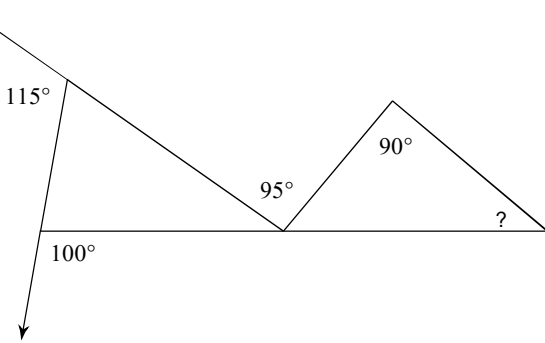
10)



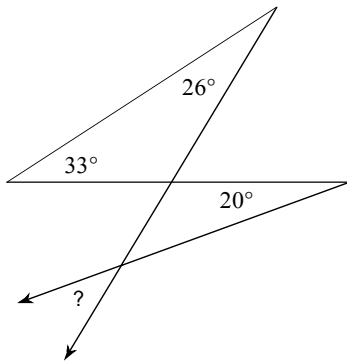
11)



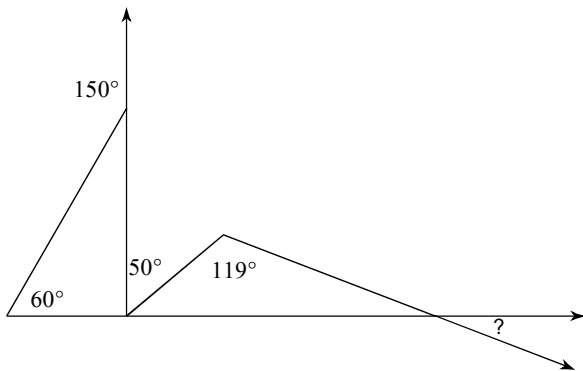
12)



13)

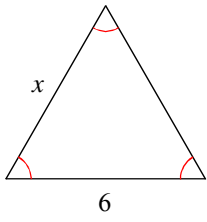


14)

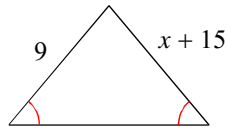


Find the value of  $x$ .

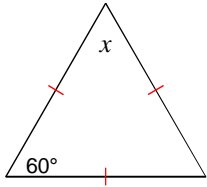
15)



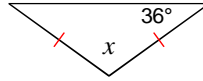
16)



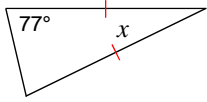
17)



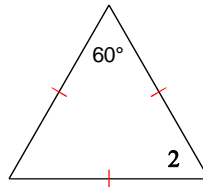
18)



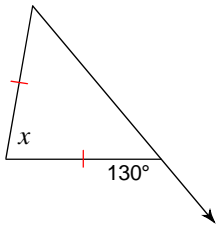
19)



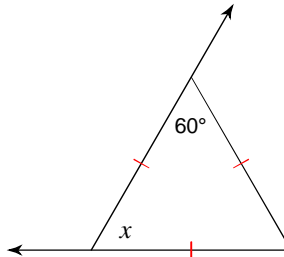
20)  $m\angle 2 = 5x$



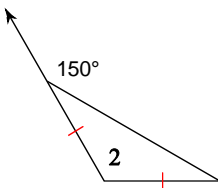
21)



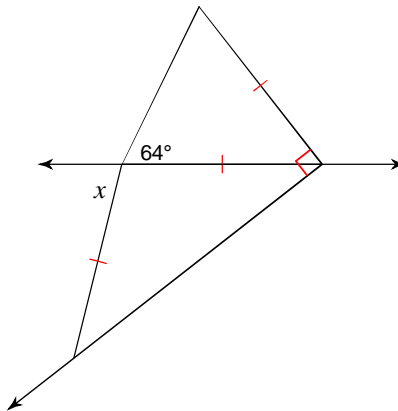
22)



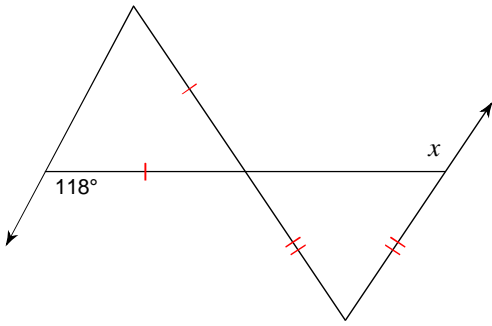
23)  $m\angle 2 = 12x + 12$



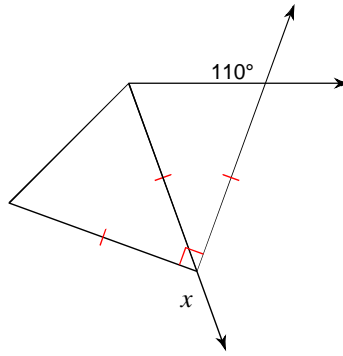
24)



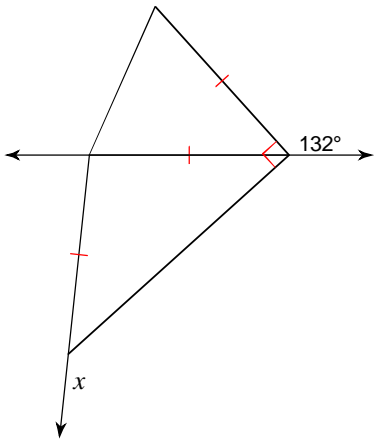
25)



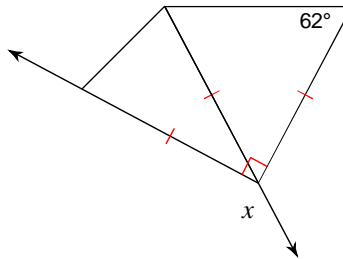
26)



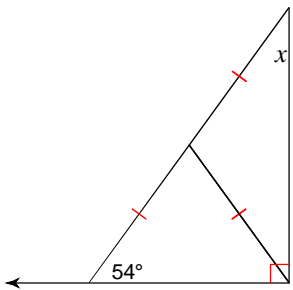
27)



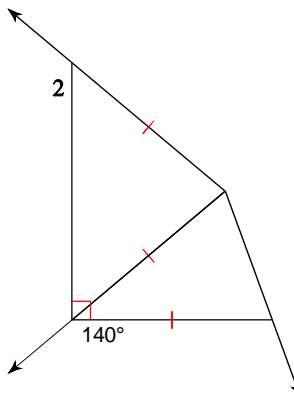
28)



29)



30)  $m\angle 2 = x + 136$



## Answers to Homework - 3.2 Triangle Problems

- |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| 1) $-8$         | 2) $11$         | 3) $60^\circ$   | 4) $60^\circ$   |
| 5) $95^\circ$   | 6) $54^\circ$   | 7) $28^\circ$   | 8) $32^\circ$   |
| 9) $41^\circ$   | 10) $85^\circ$  | 11) $153^\circ$ | 12) $40^\circ$  |
| 13) $39^\circ$  | 14) $21^\circ$  | 15) $6$         | 16) $-6$        |
| 17) $60^\circ$  | 18) $108^\circ$ | 19) $26^\circ$  | 20) $12$        |
| 21) $80^\circ$  | 22) $60^\circ$  | 23) $9$         | 24) $76^\circ$  |
| 25) $124^\circ$ | 26) $130^\circ$ | 27) $138^\circ$ | 28) $146^\circ$ |
| 29) $36^\circ$  | 30) $-6$        |                 |                 |