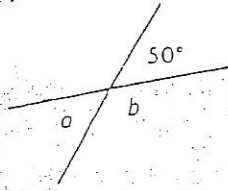


5.2 Homework Worksheet # 1

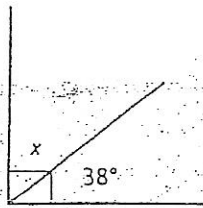
Calculate the measure of each of the unknowns. Justify your answers.

1.



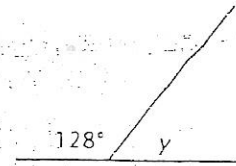
a _____ b _____

2.



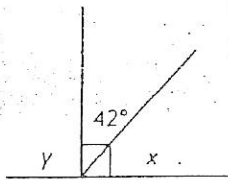
x _____

3.



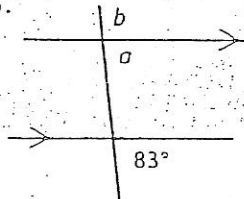
y _____

4.



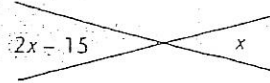
x _____ y _____

5.



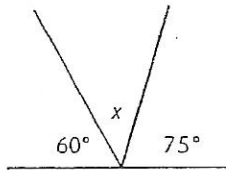
a _____ b _____

6.



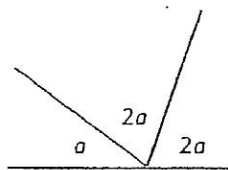
x _____

7.



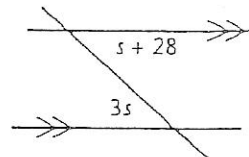
x _____

8.



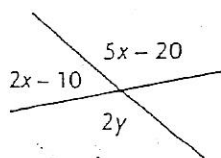
a _____

9.



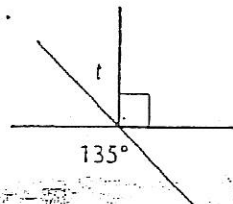
s _____

10.



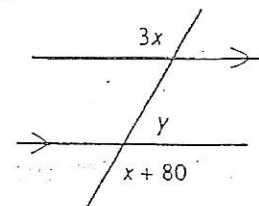
x _____ y _____

11.



t _____

12.

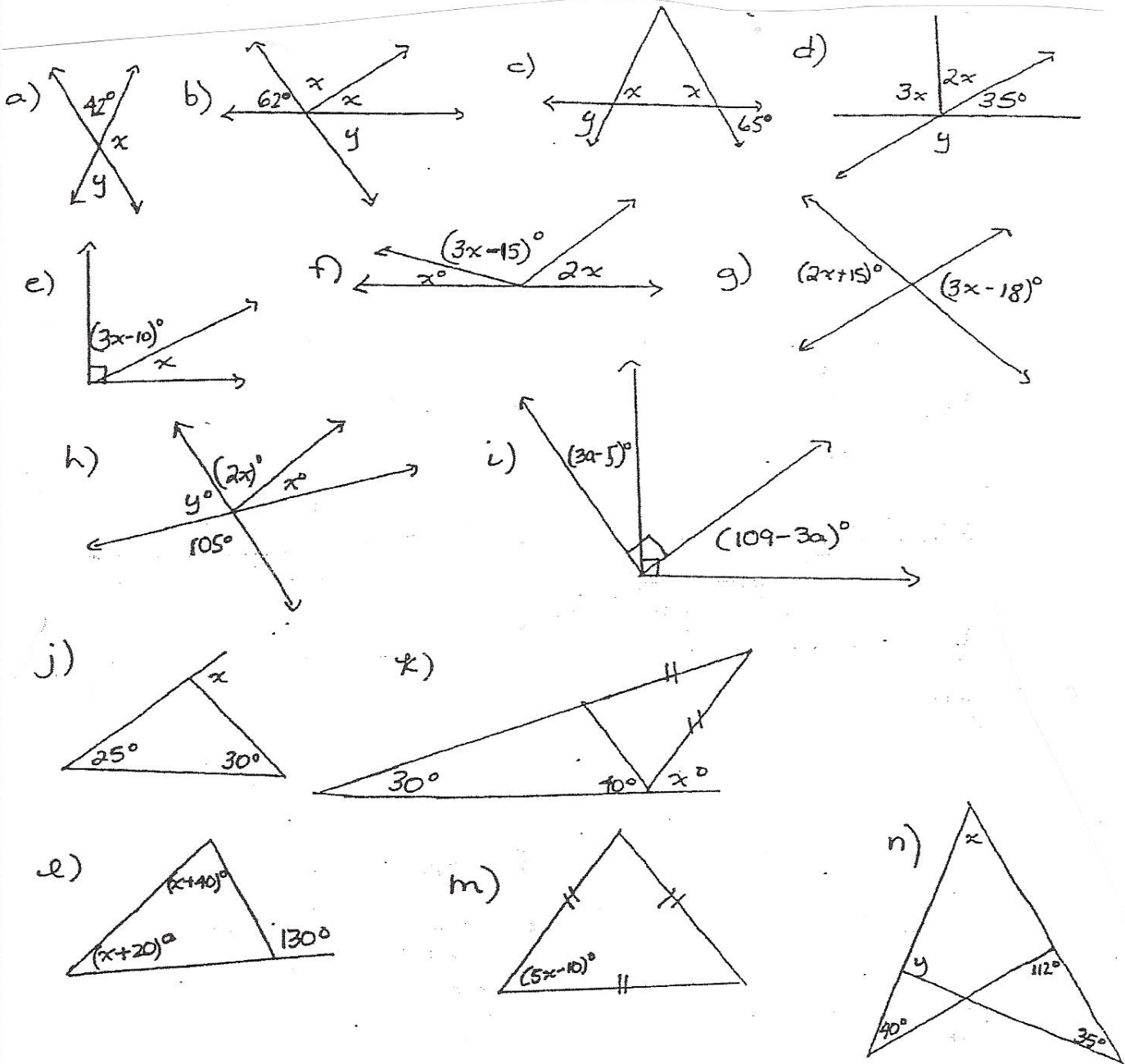


x _____ y _____

SOLUTIONS: 1. $a=50^\circ$ [OAT] $b=130^\circ$ [suppl. \angle 's] 2. $x=52^\circ$ [compl. \angle 's] 3. $y=52^\circ$ [suppl. \angle 's] 4. $x=48^\circ$ [compl. \angle 's] $y=90^\circ$ [suppl. \angle 's]
 5. $a=83^\circ$ [F-pattern/corr. \angle 's] $b=97^\circ$ [suppl. \angle 's] 6. $x=15^\circ$ [OAT] 7. $x=45^\circ$ [suppl. \angle 's] 8. $a=36^\circ$ [suppl. \angle 's] 9. $s=14^\circ$ [z-pattern/alternate \angle 's] 10. $x=30^\circ$ [suppl. \angle 's] $y=65^\circ$ [OAT] 11. $t=45^\circ$ [suppl. \angle 's] 12. $x=40^\circ$ [F-pattern & OAT] $y=60^\circ$ [suppl. \angle 's]

5.2 Homework Worksheet #2

Calculate the measure of each of the unknowns. Justify your answers.



SOLUTIONS:

a) $y = 42^\circ$ b) $x = 59^\circ$ c) $x = 65^\circ$ d) $y = 145^\circ$ e) $x = 25^\circ$
 $x = 138^\circ$ $y = 62^\circ$ $y = 65^\circ$ $x = 29^\circ$

f) $x = 32,5^\circ$ g) $x = 33^\circ$ h) $y = 75^\circ$ i) $a = 19^\circ$ j) $x = 55^\circ$
 $x = 35^\circ$

k) $x = 70^\circ$ l) $x = 35^\circ$ m) $x = 14^\circ$ n) $y = 73^\circ$
 $x = 72^\circ$

