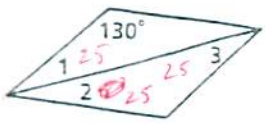
Name _____ Class _____ Date _____

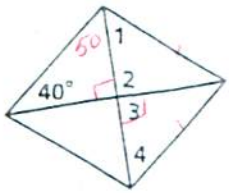
# Practice 4-3

*Example Exercises*

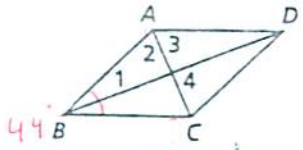
## Example 1

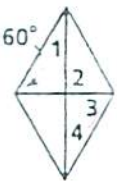
Find the measures of the numbered angles for each rhombus.

1. 


2. 

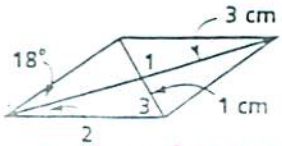

3. $m\angle ABC = 44$

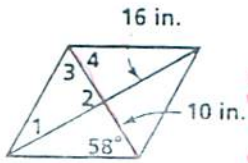


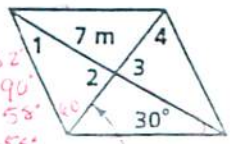

4. 

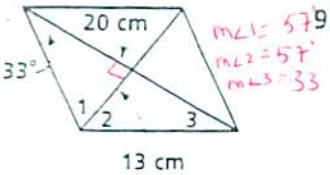

## Example 2

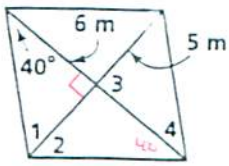
For each rhombus (a) find the measures of the numbered angles and then (b) find the area.

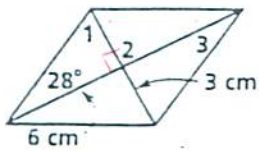
5. 


6. 


7. 

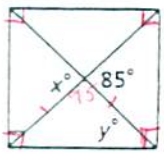

8. 

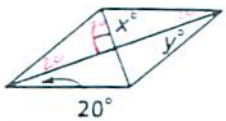

9. 


10. 

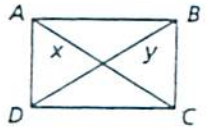

## Example 3

For each parallelogram (a) choose the best name and then (b) find the value of the variable(s).

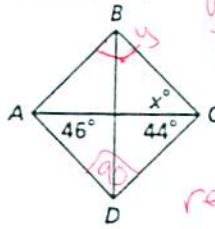
11. 

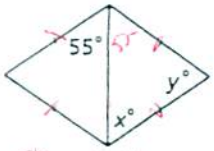

12. 

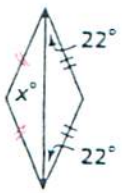

13. $AC = 16,\ BD = 16$

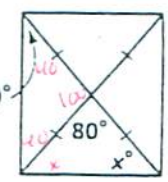


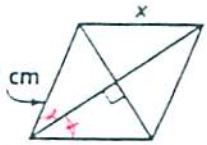

14. $m\angle ABC = y$




15. 


16. 

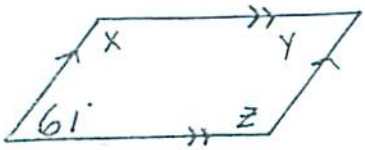

17. 


18. 

Quiz 4.1-4.2

SHOW WORK

(1)

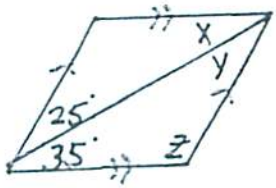



X = 119°

Y = 61°

Z = 119°

(2)

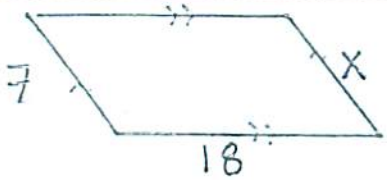



X = 35°

Y = 25°

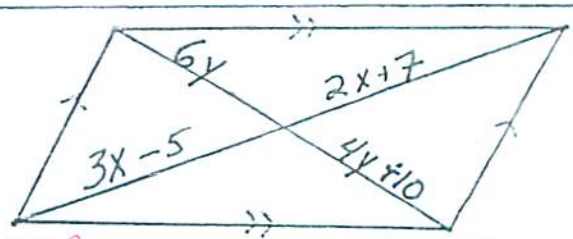
Z = 120°

(3)




X = 7

(4)




$3x-5=2x+7$

$x=12$

X = 12

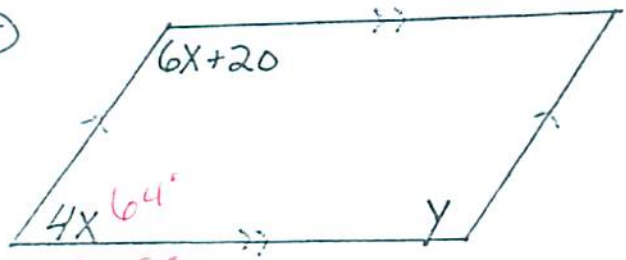
$6y=4y+10$

$2y=10$

$y=5$

Y = 5

(5)




$6x+20+4x=180$

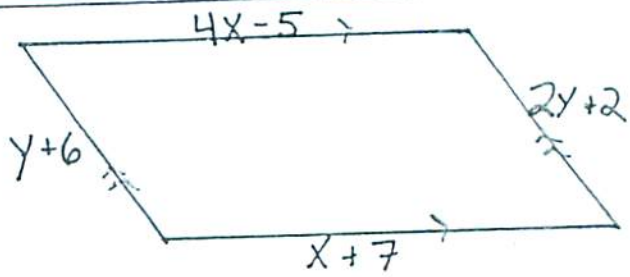
$10x+20=180$

$10x=160$ $x=16$

X = 16

Y = 116°

(6)




X = 4

$4x-5=x+7$

$3x=12$

$x=4$

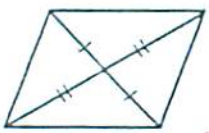
Y = 4

$y+6=2y+2$

$4=y$

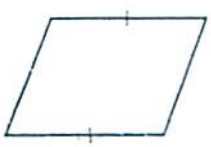
Based on the markings, decide if each figure is a parallelogram. Justify your answer.

(7)



yes, diagonals bisect e.o.

(8)

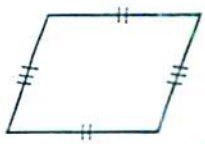


No

(9)

No

(10)



yes, opposite sides congruent