

Quadrilateral diagonals

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Name \_\_\_\_\_

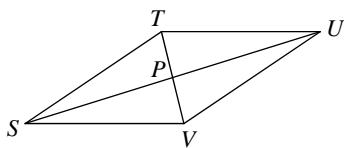
Date \_\_\_\_\_

**Find the measurement indicated in each parallelogram.**

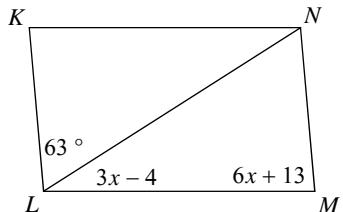
1)  $TP = 5x - 3$

$TV = 8x$

Find  $TP$



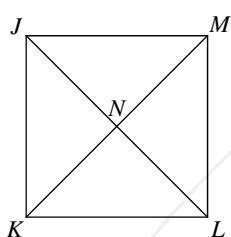
2) Find  $m\angle MLN$



3)  $LN = 2x + 10$

$NJ = x + 10$

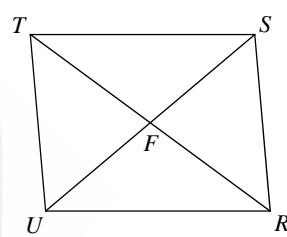
Find  $LN$



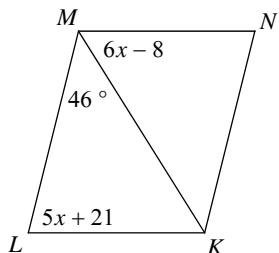
4)  $TF = 4x - 7$

$FR = 7 + 2x$

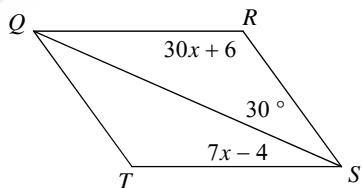
Find  $TF$



5) Find  $m\angle LKN$



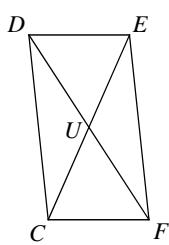
6) Find  $m\angle RQT$



7)  $DU = 3x + 8$

$UF = 4x + 3$

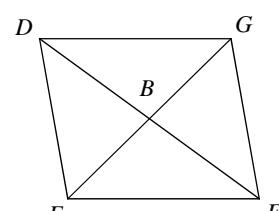
Find  $DU$



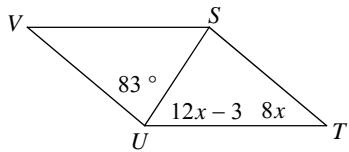
8)  $FB = x + 12$

$BD = 2x + 5$

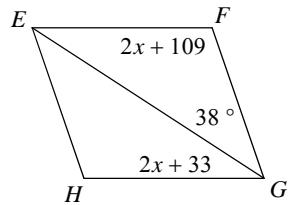
Find  $FB$



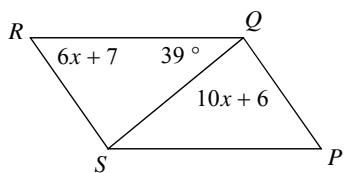
9) Find  $m\angle T$



10) Find  $m\angle FGH$



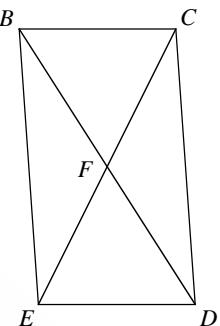
11) Find  $m\angle SQP$



12) Find  $CE$

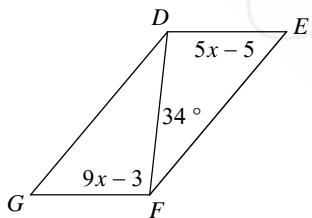
$$CF = x + 7$$

$$FE = 3x - 1$$

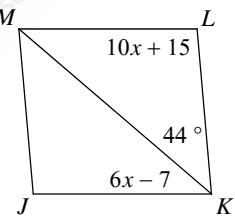


Find  $CE$

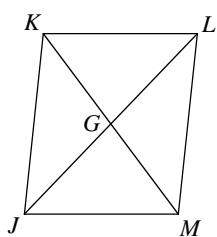
13) Find  $m\angle DFG$



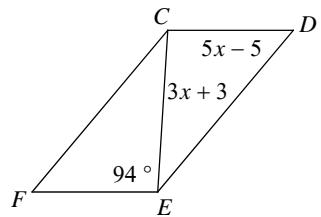
14) Find  $m\angle LKJ$



15)  $KG = 3x - 7$   
 $GM = 11 + x$   
 Find  $KM$



16) Find  $m\angle DCF$



## Answers to

- |                |                |                |                 |
|----------------|----------------|----------------|-----------------|
| 1) 12          | 2) $32^\circ$  | 3) 10          | 4) 21           |
| 5) $104^\circ$ | 6) $54^\circ$  | 7) 23          | 8) 19           |
| 9) $40^\circ$  | 10) $71^\circ$ | 11) $86^\circ$ | 12) 22          |
| 13) $96^\circ$ | 14) $85^\circ$ | 15) 40         | 16) $130^\circ$ |

