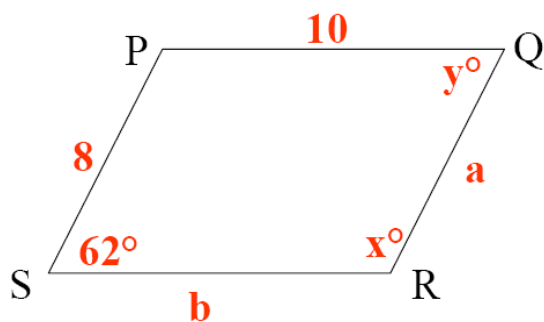


Name: _____

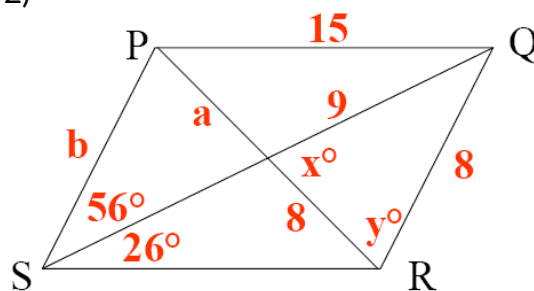
Parallelograms

Exercise 1: PQRS is a parallelogram. Find the values of a, b, x and y.

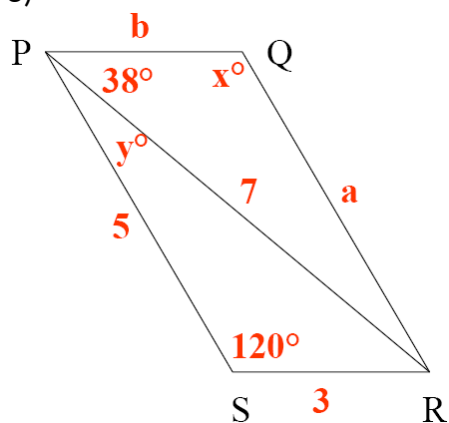
1)



2)

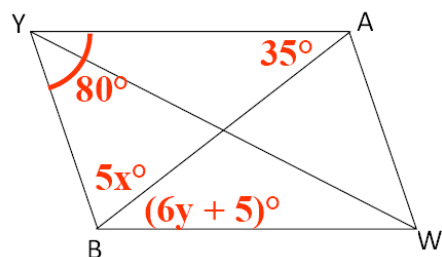


3)

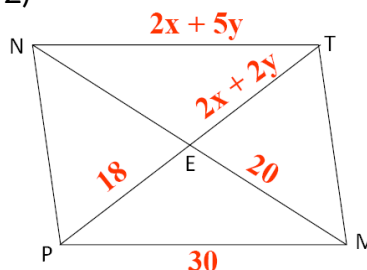


Exercise 2: Given these parallelograms find x and y.

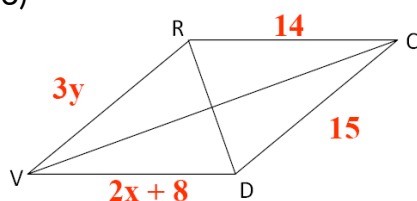
1)



2)



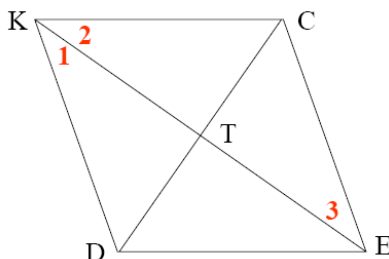
3)



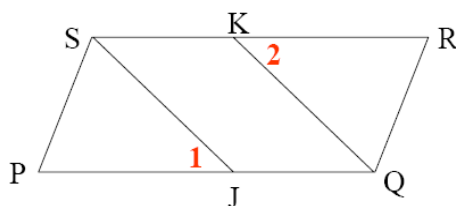
Exercise 3: Find the perimeter of parallelogram RISK if $RI = 17$ and $IS = 13$.

Exercise 4: DECK is a parallelogram.

- 1) If $KT = 2x + y$, $DT = x + 2y$, $TE = 12$ and $TC = 9$, then $x = ?$ and $y = ?$
- 2) If $m \angle 1 = 3x$, $m \angle 2 = 4x$ and $m \angle 3 = x^2 - 70$, then $x = ?$ and $m \angle CED = ?$



Exercise 5: Given: parallelogram PQRS; $PJ = RK$
 Prove: $SJ = QK$



Exercise 6: Given: parallelogram ABCD; $CD = CE$
 Prove: $\angle E \cong \angle A$

