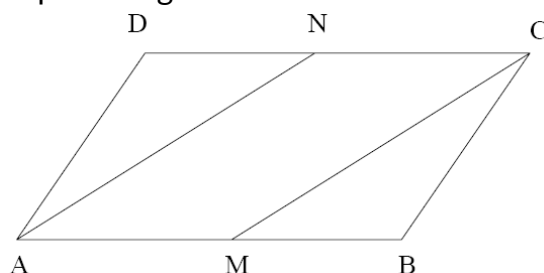


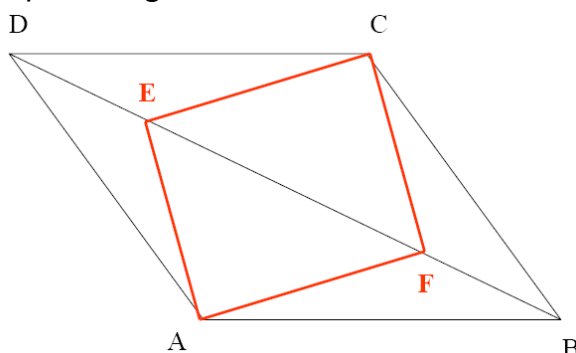
Name: _____

Parallelograms

Exercise 1: Given: parallelogram ABCD; AN bisects $\angle DAB$; CM bisects $\angle BCD$
 Prove: AMCN is a parallelogram

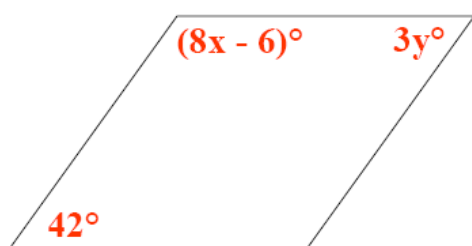


Exercise 2: Given: parallelogram ABCD; $DE = BF$
 Prove: AFCE is a parallelogram

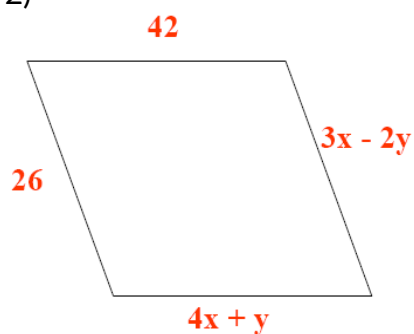


Exercise 3: What values must x and y have to make the quadrilateral a parallelogram?

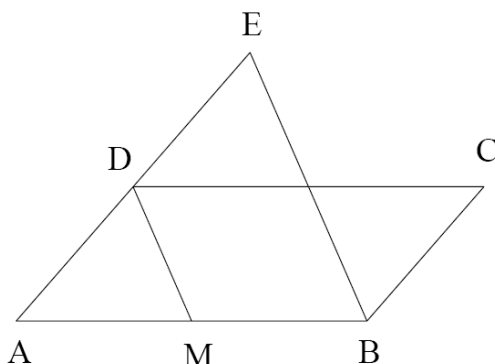
1)



2)



Exercise 4: Given: parallelogram $ABCD$; M is the midpoint of \overline{AB} ; $\overline{BE} \parallel \overline{MD}$
 Prove: $DE = BC$



Exercise 5: $EFGH$ is a parallelogram whose diagonals intersect at P . M is the midpoint of segment FG . Prove $MP = \frac{1}{2}EF$.

Exercise 6: Given: parallelogram $ABZY$; $AY = BX$
 Prove: $m \angle 1 = m \angle 3$

