Decide whether the figure is a polygon. If so, tell what type. If not, explain why not.

1) _____   2) _____   3) _____

Find the value of x.
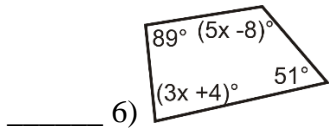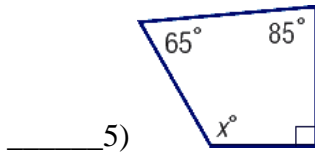
The following are parallelograms. Find the measures of the missing angles.
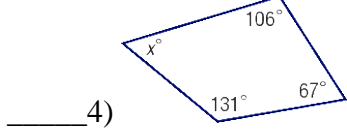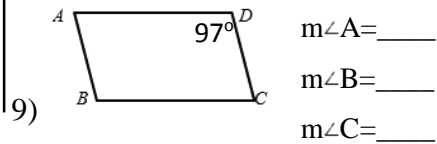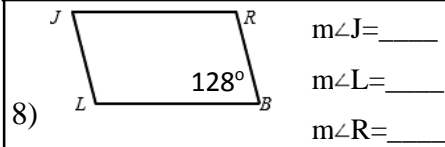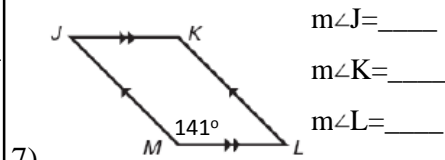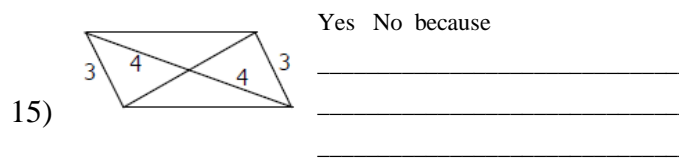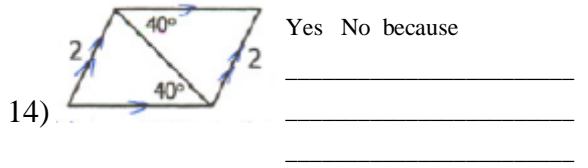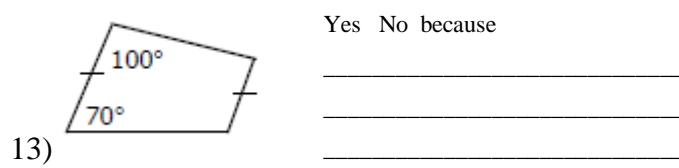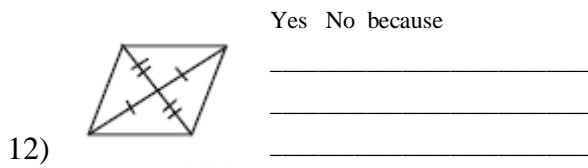
106°

131°   67°

_____4)

m∠J=_____

m∠K=_____

m∠L=_____

141°

7)

65°   85°

x°

_____5)

m∠J=_____

128°

m∠L=_____

m∠R=_____

8)

89° (5x -8)°

(3x +4)°   51°

_____6)

97°

m∠A=_____

m∠B=_____

m∠C=_____

9)

Tell whether the quadrilateral is a parallelogram. Circle "Yes" or "No" and explain your reasoning.

Yes No because

_____

_____

10)   _____

Yes No because

_____

_____

11)   _____

Yes No because

_____

_____

12)   _____

100°

70°

Yes No because

_____

_____

13)   _____

40°

2

2

40°

Yes No because

_____

_____

14)   _____

3 4

4 3

Yes No because

_____

_____

15)   _____
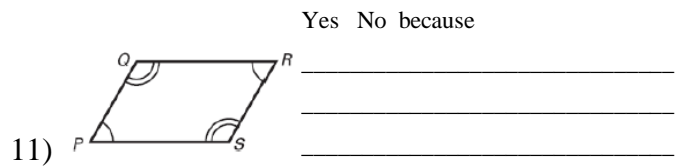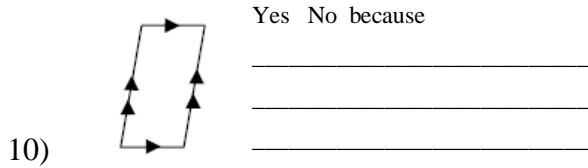
Extra credit: Find the measures in the parallelogram HIJK requested.

H

83°

6

G   10

21°   9

12

J

16) $m\angle KJI$ =_____

17) $m\angle KIH$ =_____

18) $m\angle HKI$ =_____

19) $m\angle JIH$ =_____

20) GH =_____