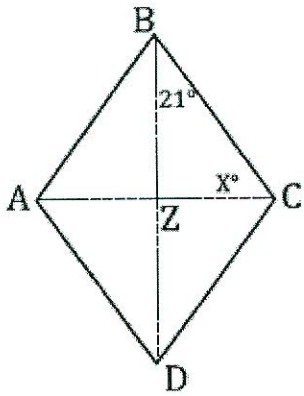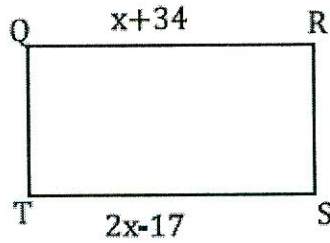Properties of Quadrilaterals
Applying the Properties of Quadrilaterals.

GUIDED PRACTICE:
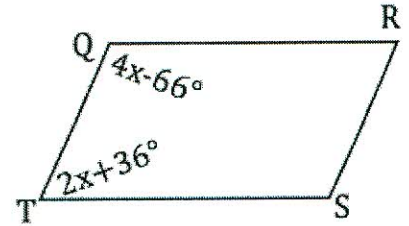
EX 1: ABCD is a rhombus. Find x.

B
21°
A
X°
Z
C
D

EX 2:
QRST is a rectangle. Solve for x.

Q   x+34   R

T   2x-17   S

EX 3:
QRST is a parallelogram. Find x.
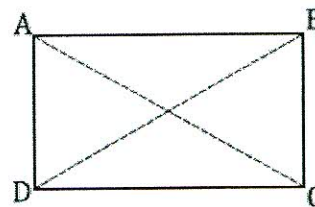
R
Q $4x-66°$

$2x+36°$
T   S

INDEPENDENT PRACTICE:

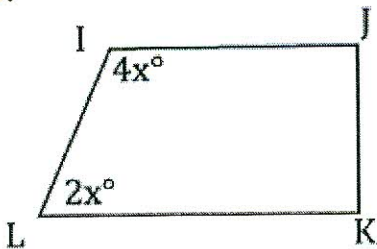1. Which choice below would ensure that quadrilateral EFGH is a square?

E   F
H   G
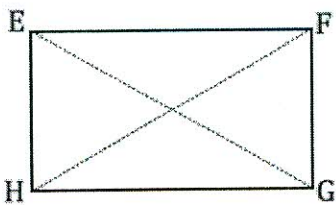
A. All angles are ≅
B. All sides are ≅
C. Neither A nor B
D. Both A and B

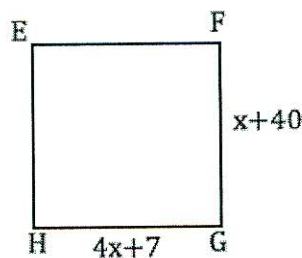2. Which choice below would ensure that quadrilateral ABCD is a parallelogram?

A   B
D   C

A. Opposite angles are ≅
B. Consecutive angles are ≅
C. Opposite sides are not ≅
D. None of these

3. IJKL is a trapezoid. Find x.
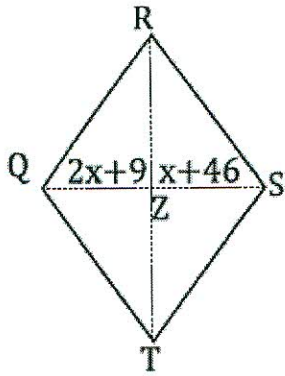
I   J
$4x°$
$2x°$
L   K
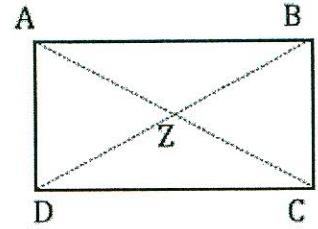
4. EFGH is a square. Find x.

E   F
x+40
H   4x+7   G

5. QRST is a rhombus. Find x.

R

Q /2x+9|x+46\ S

Z

T

6. ABCD is a rectangle. $\overline{AC}=3x+11$ and $\overline{BD}=2x+31$. Find x.

A   B

Z

D   C

7. EFGH is a rectangle. Find x.

E   F

x+52°

H   G
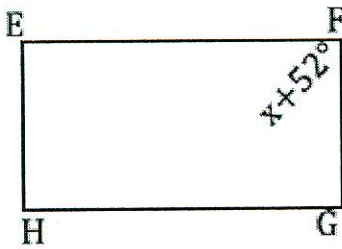
8. Find < V in the figure below.

T   W

114°

86°

?

U   V
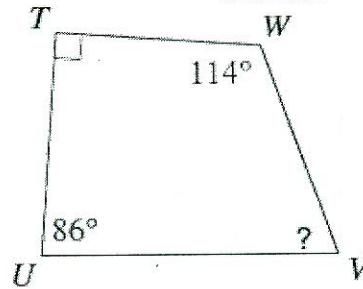
9. Find the value of x in in quadrilateral JKLM.

M   J

17x + 8   66°

74°   110°

L   K

10. Find $m\angle G$

F   E

3x + 11

5x − 9

G   D