

Name : \_\_\_\_\_

Score : \_\_\_\_\_

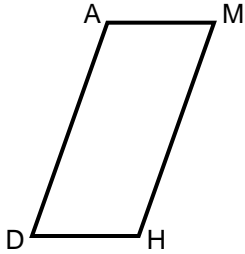
Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Properties of Parallelograms

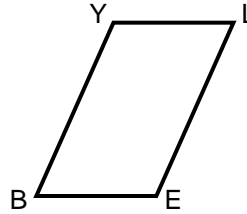
Find x.

1)



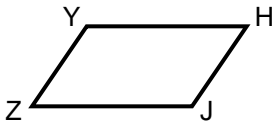
$$\begin{aligned} m\angle M &= 67^\circ \\ m\angle D &= x + 66^\circ \end{aligned}$$

2)



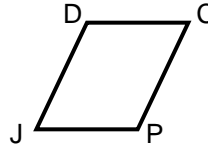
$$\begin{aligned} m\angle E &= 129^\circ \\ m\angle Y &= 10x + 99^\circ \end{aligned}$$

3)



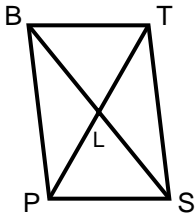
$$\begin{aligned} ZJ &= 33 \\ YH &= 9x - 3 \end{aligned}$$

4)



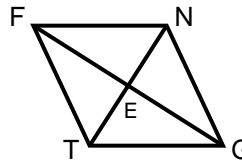
$$\begin{aligned} CP &= 34 \\ DJ &= x + 32 \end{aligned}$$

5)



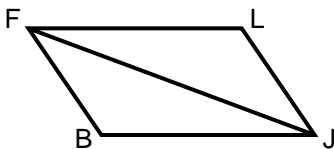
$$\begin{aligned} PT &= 76 \\ PL &= 7x + 24 \end{aligned}$$

6)



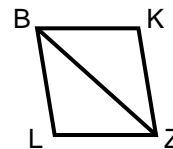
$$\begin{aligned} TE &= 31 \\ TN &= 6x + 44 \end{aligned}$$

7)



$$\begin{aligned} m\angle JFB &= 35^\circ \\ m\angle JLF &= 111^\circ \\ m\angle JFL &= 2x + 30^\circ \end{aligned}$$

8)



$$\begin{aligned} m\angle BZK &= 35^\circ \\ m\angle ZLB &= 108^\circ \\ m\angle LZB &= x + 36^\circ \end{aligned}$$

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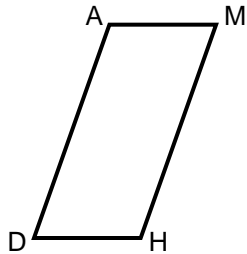
Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Properties of Parallelograms

Find x.

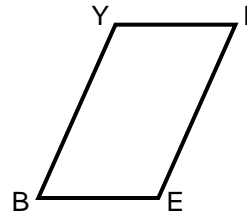
1)



$$\begin{aligned} m\angle M &= 67^\circ \\ m\angle D &= x + 66^\circ \end{aligned}$$

$$x = 1$$

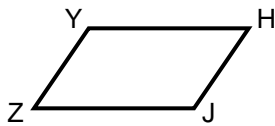
2)



$$\begin{aligned} m\angle E &= 129^\circ \\ m\angle Y &= 10x + 99^\circ \end{aligned}$$

$$x = 3$$

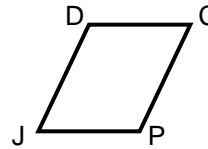
3)



$$\begin{aligned} ZJ &= 33 \\ YH &= 9x - 3 \end{aligned}$$

$$x = 4$$

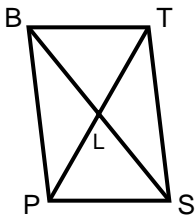
4)



$$\begin{aligned} CP &= 34 \\ DJ &= x + 32 \end{aligned}$$

$$x = 2$$

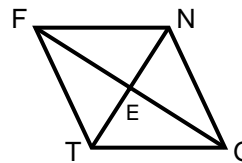
5)



$$\begin{aligned} PT &= 76 \\ PL &= 7x + 24 \end{aligned}$$

$$x = 2$$

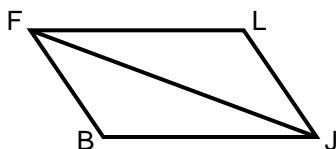
6)



$$\begin{aligned} TE &= 31 \\ TN &= 6x + 44 \end{aligned}$$

$$x = 3$$

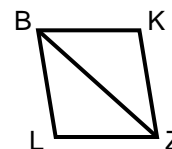
7)



$$\begin{aligned} m\angle JFB &= 35^\circ \\ m\angle JLF &= 111^\circ \\ m\angle JFL &= 2x + 30^\circ \end{aligned}$$

$$x = 2$$

8)



$$\begin{aligned} m\angle BZK &= 35^\circ \\ m\angle ZLB &= 108^\circ \\ m\angle LZB &= x + 36^\circ \end{aligned}$$

$$x = 1$$