$$
\begin{aligned}
& 11-12-13 \\
& 5^{5 n} G e 0
\end{aligned}
$$

Ch. 4 PT 2
(6)


$$
\begin{aligned}
& A B \cong A C \\
& 6 n-20=5 n-10 \\
& \frac{5 n}{n-20-10} \\
& \frac{n_{120}+20}{n=10} \\
& A B=6 \cdot n-20 \\
& 6 \cdot 10-20 \\
& =40
\end{aligned}
$$

(8) Found in \#6 that $n=10$

$$
\begin{aligned}
B C & =5 n-1 \\
& =5 \cdot 10-1=49
\end{aligned}
$$

(9)

(5)

(18) $\triangle D E F \cong \triangle F G H$

(A.) $\triangle E D F \cong \triangle G F H$
(c)
(B) $\triangle F E D \cong \triangle H G F Q \triangle F O E \cong \triangle F H G$

Ch. 4 PT 3
(12) $\triangle R S T \cong \triangle H I J$,

$$
\begin{aligned}
& \angle R=9\rangle \\
& \angle J=3\rangle \\
& \angle S=4 x+14
\end{aligned} \text { Find } x \text {. }
$$


$4 x+14+37+97=180^{\circ}$
$4 x+148=180^{\circ}$

$$
\begin{gathered}
-148-148 \\
\hline 4 x=32 \\
x=8
\end{gathered}
$$


(13)

(16)


$$
\begin{gathered}
2 n+6+8 n+4=180^{\circ} \\
10 n+10=180^{\circ} \\
-10-10 \\
\hline 10 n=170 \\
n=17
\end{gathered}
$$


(19)

(20) $\binom{x_{1}, y_{1}}{2}$

$$
\begin{aligned}
& \perp t \cdot y=\frac{\sqrt{\frac{1}{2}} x+10}{m=\frac{1}{2} \quad \therefore \perp m=-2} \\
& y-y_{1}=m\left(x-x_{1}\right) \\
& y-9=-2(x-2) \\
& \begin{aligned}
y-9 & =-2 x+4 \\
+9 & +9
\end{aligned} \\
& \begin{aligned}
y & =-2 x+13
\end{aligned}
\end{aligned}
$$

(18)


$$
\begin{aligned}
& 11-12-13 \\
& 6^{\prime n} 6 e 0
\end{aligned}
$$

Questions firm PT 2
(a)


$$
2 n+2 n+2 n=36
$$

$$
6 n=36
$$

$$
n=6
$$

(15)

(20)

$$
\begin{aligned}
& (20) \\
& y-y_{1}=m\left(x-x_{1}\right) \\
& \text { slope }=\frac{\Delta y}{\Delta x}=\frac{6-3}{3-4} \quad \frac{3}{-1}=-3
\end{aligned}
$$

$$
\begin{gathered}
y-3=-3(x-4) \\
y-3=-3 x+12 \\
+3+3 \\
\hline y=-3 x+15
\end{gathered}
$$

(16)

(C) $\triangle G F D \cong \triangle G H F J$
(D) $\triangle F D E \cong \triangle F H G X$

## Ch. 4 PT 3 Ques biuns

(12) $\triangle R S T \cong \triangle H I J$

$$
\begin{aligned}
& \angle R=97 \\
& \angle T=37 \\
& \angle S=4 x+14
\end{aligned} \quad \text { Find } x .
$$



$$
\begin{gathered}
4 x+14+37+97=180^{\circ} \\
4 x+148=180^{\circ} \\
4 x=32 \\
x=8
\end{gathered}
$$

(15)

(14)

(16)

(19)

(B) $\angle B D C=\angle B A D X$
(A) $\angle B D C=\angle A B D$
(17)



(13)

(20) $(2,9)$

$$
\begin{aligned}
& \text { Leto } y=\frac{1}{\frac{1}{2}} x+10 \\
& m=\frac{1}{2} \\
& \therefore \perp m=-2 \\
& y-y_{1}=m\left(x-x_{1}\right) \\
& y-9=-2(x-2) \\
& y-9=-2 x+4 \\
& \frac{+9}{+9} \\
& y=-2 x+13
\end{aligned}
$$

