## Review

pg. 105: $\underline{3}, \underline{6}, \underline{10}, 15, \underline{22}, 28$
\#3 Given $x w x T \cong$ ́ $x y x z$ Prove: $\Varangle W X Z \cong T X Y$

Statements Reasons

1. $\Varangle w \times T \cong \Varangle y \times z$
2. $4 W \times Z \cong \Varangle T X Y$
3. Given
4. If the same $\alpha$ is added to $\cong \nless$ is

$$
\rightarrow x 15 \cong
$$

\#6 Given: Diagram as shown $41 \xlongequal{\cong} \times 4$
Prove: $\Varangle 2 \cong \Varangle 3$


## Statements

1. Diagram as shown
2. $\times 1 \cong \Varangle 4$
3. $\triangle A R T$ is a str. 4
4. $\Delta 1$ is supp. to $\Delta 2$
5. 43 is supp to $\varangle 4$
6. $42 \cong \Varangle 3$
\#10 Given: $\begin{aligned} & \triangle E G F \cong \triangle E F G \\ & \Varangle E G H \cong \triangle F J\end{aligned}$ Conc: $\triangle H G F \cong \triangle J F G$

## Statements

Reasons

1. Given
2. $\Varangle E G F \cong \Varangle E F G$
3. $\Varangle E G H \cong \varangle E F J$
4. $\Varangle H G F \cong \triangle J F G$
5. Given
6. If $2 \Xi$ xis are subtracted from 2 $\cong X \cdot s \rightarrow$ differences are $\cong$
\#15 PEA is the midpt of $\overline{D E}$ and $O A=12$
Points 1 and $N$ are trisection points of $\overline{D E}$.
Find AN.

\#22 Given: $\Varangle 1$ is comp to $\Varangle 3$ 44 is comp to $\$ 2$



## Statements

1. 41 is comp. to 43
$2 \varangle 4$ is comp. to $\$ 2$
$342 \cong 43$
2. $41 \cong 44$
3. Given

2 Given
3 V.A. are $\cong$
4 if 2 \&.s are comp. to $\cong \Delta \cdot s$

## \#28 Solve for $x$ and $y$

$$
\begin{aligned}
& 2 x+2 y+x=180 \\
& 3 x+2 y=180
\end{aligned}
$$



$$
2 x=y
$$

$$
3 x+2(2 x)=180 \quad y=2\left(\frac{180}{7}\right)
$$

$$
3 x+4 x=180
$$

$$
7 x=180
$$

$$
y=\frac{360}{7}
$$

$$
x=\frac{180}{7}
$$

