Review
pg 206: 2, 9, 17-19

\#2 a. $\Varangle C$ and $\Varangle A B E$
b. $\Varangle E B D$ and $\Varangle C D B$
\# 9
a if median from $A$ intersects $\overline{B C}$ at $M$, find $M$

$$
\left(\frac{3+15}{2}, \frac{1+7}{2}\right) \Rightarrow(9,4)
$$


c. not 11

$$
m_{A R}=\frac{4}{9}
$$

d. Find slope of alt. from $A$ to $\overline{B C}$

$$
m_{B C}=\frac{1}{2} \quad 1 m=-2
$$

e. $(2,4)$ to $(9,4)$ is 7 units (walktrom $A$ to $M$ )
\#17

$$
\left.\begin{array}{l}
m_{E F}=\frac{4}{5} \\
m_{J H}=\frac{4}{5}
\end{array}\right\} \text { parallel }
$$

If Both pairs of opposites sides are II $\rightarrow$ parallelogram

\#18 $\Varangle F$ is a Right $\Varangle$
Explain why $(9,6)$
could not be the coordinates of $H$.

$$
\begin{aligned}
& m_{E F}=\frac{7-3}{2-4}=\frac{4}{-2}=-2 \\
& (2,7) \\
& (4,3) \\
& m_{F H}=\frac{6-3}{9-4}=\frac{3}{5} \\
& (4,3) \\
& (9,6)
\end{aligned}
$$


\#19 Given $\triangle P Q R$ with $P=(3,6) \quad Q=(4,1) \quad R=(14,3)$ find the measure of the largest angle of $\triangle P Q R$.

pg. 264
\# 3 Write an inequality for the restrictions on $X$.


$$
\begin{aligned}
& 3 x<x+50<180 \\
& \\
& 3 x<x+50 \quad x+50<180 \\
& 2 x<50 \\
& x<25
\end{aligned} \quad x<130
$$

But also:

$$
\begin{array}{rlr}
x+50 & >0 & 3 x>0 \\
x>-50 & x>0
\end{array}
$$

Choose the greatest restrictions

$$
0<x<25
$$

\#7
a.



\#9 Given: $\overline{A B} \cong \overline{C D}$

$$
\overline{A G} \cong \overline{B E} ; \overline{A G} \| \overline{B E}
$$

Conc: $\overline{G C} \| \overline{E D}$


1. $\overline{A B} \cong \overline{C D}$
2. $\overline{A C} \cong \overline{B D}$
3. $\overline{A G} \cong \overline{B E}$
4. $\overline{A G} \| \bar{B} E$
5. $\angle A \cong \triangle 1$
6. $\triangle A G C \cong \triangle B E D$
$7 \angle 2 \cong \angle D$
7. $\overline{G C} \| \overline{E D}$
\#17 Find the area of the circle

$$
\begin{aligned}
& A=\pi r^{2} \\
& A=\pi(5)^{2} \\
& A=25 \pi \approx 78.540 u^{2}
\end{aligned}
$$

1. Given

2 Addition prop.
3. Given
4. Given
5. If II lines $\rightarrow$ corr. ais $\cong$
6. SAS
7. CPCTC

$$
\text { 8. If corr. } 4 \text { is } \cong \rightarrow 11 \text { lines }
$$


\#18 Given: $\overleftrightarrow{A D} \| \overleftrightarrow{B C}$

$$
\begin{aligned}
& m \times 1=5.63 x+2.42 \\
& m \times 2=2.1 x \quad 42.672 \\
& m \times 3=6 x-5.1 \\
& m \times 4=42
\end{aligned}
$$


a. Find: $m \Delta 1$

$$
\begin{aligned}
5.63 x+2.42 & =6 x-5.1 \\
7.52 & =.37 x \\
20.32 & \approx x
\end{aligned}
$$

b. IS $\overleftrightarrow{D C} \| \overleftrightarrow{A B} \quad$ No - altint $\langle$ not $\cong$
\#25


$$
x=30+40=70^{\circ}
$$

