December 21 H 2012.gwb - 1/9 - Fri Dec 212012 11:15:27
Warm $\uparrow$ :


Given: $a \| b$
cold
Find the measure of each numbered $\angle$.

$$
\begin{aligned}
& m \angle 1=130^{\circ} \\
& m \angle 2=130^{\circ} \\
& m \angle 3=50^{\circ} \\
& m \angle 4=30^{\circ} \\
& m \angle 5=70^{\circ} \\
& m \angle 6=70^{\circ} \\
& m \angle 7=60^{\circ} \\
& m \angle 8=40^{\circ} \\
& m \angle 9=40^{\circ} \\
& m \angle 10=50^{\circ}
\end{aligned}
$$




December 21 H 2012．gwb－3／9－Fri Dec 212012 15：50：26





## Geometry Honors

Parallel Lines

Directions: Use the given information and your knowledge of parallel lines to find the measure of each angle in the figure. Give a rationale for how you determined each measure. When you are finished, copy the angle measures onto the final answer sheet.



Given: $a\|6, c\| e, d\|g, \sqrt{1}\| i, f \perp a, c \perp h, \mathrm{~m} \angle 26=25$, and $\mathrm{m} \angle 37=75$

| Angle Measure | Rationale | Angle Measure | Rationale |
| :---: | :---: | :---: | :---: |
| $\mathrm{m} \angle 26=25$ | given |  |  |
| $\mathrm{m} \angle 37=75$ | given |  |  |
| $m \angle 24=75$ | $\angle 24$ and $\angle 37$ are vertical angles |  |  |
| $\mathrm{m} \angle 3=75$ | $\angle 24$ and $\angle 3$ are corresponding angles. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  | - |  |

