$$
\begin{aligned}
& 12-5-13 \\
& 1^{5+} \text { Geo }
\end{aligned}
$$

(1) What is the $3^{\text {rd }}$ side of a triangle if it has legs of
a.) $2,6^{6-2} \quad 4<m<8$
b.) $3,3 \quad 0<m<6$
c.) $10,2515<m<35$
(2) State if the following measurements could make a $t$ triangle?
A.) $2.8,9610$ Yes
B.) $1.3166^{-1} 8 \times \mathrm{NO}$
c.) $4,4.408 \mathrm{Yes}$
0.) $8,6,14214 \times \mathrm{NO}$
(3)


Which angle is the largest?

$$
\angle C
$$

(4)


What is longest side?


> (6) In $\triangle A B C, \angle A=4 x$, $\angle B=3 x-15$, and $\angle C=4 x+30$.
> Determine the longest and
> Shortest side of $\triangle A B C$.

$4 x+3 x-15+4 x+30=180^{\circ}$
$11 x+15=180^{\circ}$
$-15-15$
$11 x=165$
$x=15$
Longest $\overline{A B}$
Sholtest: $\overline{A C}$



