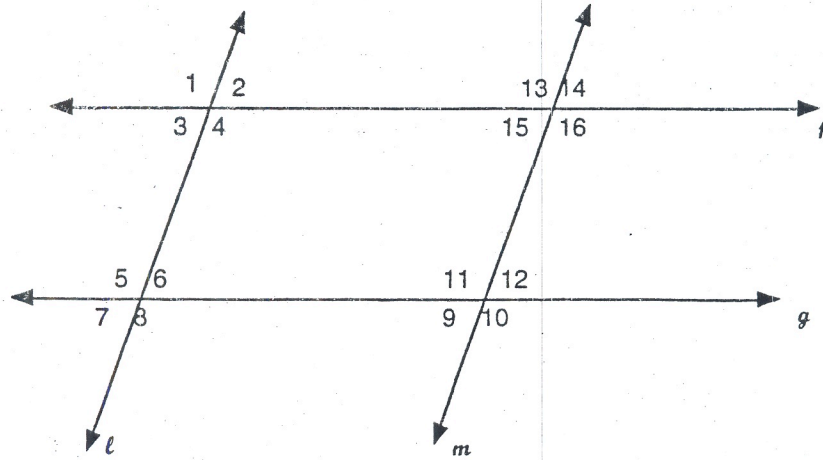


Use the figure below to complete each problem:



1. $m\angle 8 = 4x$
 $m\angle 11 = 3x + 50$

equation: _____ so that _____ || _____
solve & justification: if _____ then the lines are ||.
show work

$x =$ _____
measure of both angles: _____, _____

2. $m\angle 12 = 16x$
 $m\angle 14 = 6x + 40$

equation: _____ so that _____ || _____
solve & justification: if _____ then the lines are ||.
show work

$x =$ _____
measure of both angles: _____, _____

3. $m\angle 4 = 4x$
 $m\angle 15 = 6x + 10$

equation: _____ so that _____ || _____
solve & justification: if _____ then the lines are ||.
show work

$x =$ _____
measure of both angles: _____, _____

4. $m\angle 10 = 12x + 6$
 $m\angle 13 = 4x + 30$

equation: _____ so that _____ || _____
solve & justification: if _____ then the lines are ||.
show work

$x =$ _____
measure of both angles: _____, _____