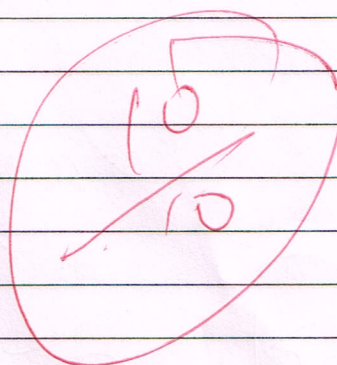


TUTORIAL 2

For each of the following

i) $2(6-4a) \leq 9a - 56$

ii) $\frac{4a}{10} < \frac{7a-11}{-7}$



a) Solve the following inequalities

b) Illustrate the solution in number line

c) State the interval notation.

i) $2(6-4a) \leq 9a - 56$

$12 - 8a \leq 9a - 56$

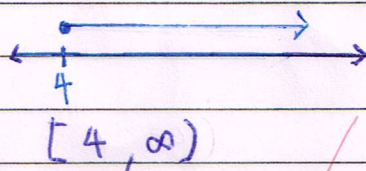
$12 - 12 - 8a \leq 9a - 56 - 12$

$-8a - 9a \leq 9a - 9a - 68$

$-17a \leq -68$

$-17 \quad -17$

$a \geq 4$



ii) $\frac{4a}{10} < \frac{7a-11}{-7}$

$-7(4a) < 10(7a-11)$

$-28a < 70a - 110$

$-28a - 70a < 70a - 70a - 110$

$-98a < -110$

$\frac{-98a}{-98} > \frac{-110}{-98}$

$a > 1.12$

