

# Math

## (Basic Algebra)

➤ Basic Algebra:

Ex:1  $2x+5(x-7)=0$

Ans:  $2x+5x-35=0$

Or,  $7x-35=0$

Or,  $7x=35$

Or,  $x=35/7=5$

➤ EX:2  $11 + \sqrt{-4 + 6 \times 4 \div 3}$

ANS:  $=11 + \sqrt{-4 + 8}$

$=11 + \sqrt{4}$

$=11 + 2 = 13$

➤ Solve the equation:  $-5x + 20 = 25$

ANS:

(Subtract 20 to both sides )

$-5x + 20 - 20 = 25 - 20$

Simplify

$-5x = 5$

(Divide both sides by -5 )

$x = -1$

➤ Solve the inequality:  $-3x + 4 < -8$

ANS:

(Subtract 4 from both sides )

$-3x + 4 - 4 < -8 - 4$

Simplify

$-3x < -12$

(Divide both sides by -3 and change symbol of inequality )

$x > 4$