

# Alamaal English High School , Sharjah

Calss: 9

worksheet

Subject:Mathematics

Name:\_\_\_\_\_

Choose the best answer.

Q#1 what will be added to complete the square of

$$9a^2 - 12ab?$$

i)  $-16b^2$

ii)  $16b^2$

iii)  $4b^2$

iv)  $-4b^2$

Q#2 Factors of  $(x^2 + 5x + 4)(x^2 + 5x + 6)-3$  are

i)  $(x^2 - 5x + 7)(x^2 + 5x + 3)$

ii)  $(x^2 + 3x + 7)(x^2 + 3x + 5)$

iii)  $(x^2 + 5x + 7)(x^2 + 5x + 3)$

iv)  $(x^2 - 5x + 7)(x^2 - 5x + 3)$

Q#3 L.C.M of  $39x^7y^3z$  and  $91x^5y^6z^7$  is

i)  $273x^7y^6z^7$

ii)  $91x^7y^6z^7$

iii)  $273x^6y^7z^7$

iv)  $39x^7y^6z^6$

Q#4 H.C.F of  $a^3 + b^3$  and  $a^2 - ab + b^2$  is

i)  $a + b$

ii)  $a^2 - ab + b^2$

iii)  $(a - b)^2$

iv)  $a^2 + b^2$

Q#5 A plane is at a height of 300 m and is 500 m away from the airport as shown in the figure. How much distance will it travel to land at the airport?

i)  $\sqrt{34}\text{m}$

ii)  $100\sqrt{34}\text{m}$

iii)  $100\text{m}$

iv)  $100\sqrt{17}$

