

*The City School*  
 North Nazimabad Boys Campus  
 Subject: Mathematics  
 Teacher: Sheema Aftab  
 Class 9 (S and E)



Name: \_\_\_\_\_ Class 9/Sec: \_\_\_\_\_ Date: \_\_\_\_\_ Max. Marks [25]  
 (Paper 1)

Q1:

B

sin x	
cos x	
tan x	

ABC is an isosceles triangle with  $AB = BC$  and  $AC = 32\text{cm}$ .  
 Using as much information from the table as is necessary, calculate

- $AB$  b) the area of triangle ABC. (4)

A                      32cm                      C

Q2: Solve the simultaneous equations  $x = 2y + 11$

$$4x + 3y = 0 \quad (4)$$

Q3: a) Given that  $a = 2$  and  $b = -5$ , find the value of a. (2)

- Solve the equation (4)

- $\quad = 12$

Q4: a) Solve the inequality  $3 - 2x < 5$ . (2)

- Solve the equation  $= 1 +$  (3)

- Simplify (3)

- i) Find the smallest integer k which satisfies  $7k \geq 36$  (3)

ii) Find the largest integer n which satisfies  $3n - 1 < 26$