

Sundarban Mahavidyalaya.

SEC, Sage Math

PM: 20

Sem - IV

1. What is  $16 \% 3$  in sage math. 5x2

- a) 0      b) 1      c) 2      d) 3

2.  $38 \parallel 4$  is

- a) 0      b) 1      c) 2      d) None of these

3.  $\arctan(1)$  is.

- a)  $\frac{\pi}{4}$       b)  $\frac{\pi}{3}$       c)  $\frac{1}{4} * \pi$       d)  $\frac{1}{3} * \pi$

4.  $\text{divmod}(68, 5)$

- a) 3      b) 13      c) (11, 1)      d) (13, 3)

5. What is

$$81^{(1/4)} + 3^2 + 4 + 2 \% 5$$

a) 8

b) 16

c) 24

d) None of these.

6. Draw the following graphs

2x5

a) Plot  $(x^2, (x, -2, 2))$ , title = 'A plot of  $\$x^2\$'$

b) Sage: `var("x, y")`  
:  $(x, y)$

sage: `implicit_plot(x^2 + y^2 - 2, (x, -3, 3), (y, -3, 3))`

Draw the figure.

x