



SSC CGL/CPO/CHSL

MATHS

ALGEBRA

TRICKS

$$\text{If } a + 1/a = \sqrt{3}$$

LIVE | 02:00 PM

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$$\text{If } a + \frac{1}{a} = \sqrt{3}$$



$$\text{If } a + \frac{1}{a} = 1$$



Q:-2 . $x + \frac{1}{x} = \sqrt{3}$, then the value of $x^{18} + x^{12} + x^6 + 1$ is :

- (A) 1
- (B) 2
- (C) 0
- (D) -1





Q:-3 . $x + \frac{1}{x} = \sqrt{3}$, then the value of $x^{48} + x^{42} + x^{36} + x^{30}$
 $+ x^{24} + x^{18} + x^{12} + x^6 + 1$ is :

- (A) 1
- (B) 2
- (C) 0
- (D) -1





Q:4. $(x + \frac{1}{x})^2 = 3$, then the value of $x^{206} + x^{200} + x^{90} + x^{84} + x^{18} + x^{12} + x^6 + 1$ is

- (A) 1
- (B) 2
- (C) 0
- (D) -1





Q:-5. $(x + \frac{1}{x})^2 = 3$, then the value of $x^{72} + x^{66} + x^{54} + x^{36} + x^{24} + x^6 + 1$ is

- (A) 1
- (B) 84
- (C) 0
- (D) 206



Q:-6. $x + \frac{1}{x} = \sqrt{3}$, then the value of $1 + x^6 + x^{12} + x^{18} + x^{24} + \dots + x^{114}$ is :

- (A) 1
- (B) 2
- (C) 0
- (D) -1





Q:-7. $x^2 + \frac{1}{x^2} = 1$, then the value of $x^{18} + x^{12} + x^6 + 1$ is :
(SSC CPO SI 2016)

- (A) 1
- (B) 2
- (C) 0
- (D) -1





Q:-. If $x + \frac{1}{x} = -2$ then what is the value of $1 + x^3 + x^6$?

- (A) 0
- (B) 1
- (C) 2
- (D) -1





Q:-HW. If $x-y = 3$, then what is the value of $x^3 - y^3 - 9xy$?

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- (A) 3
- (B) 9
- (C) 18
- (D) 27



