

Answer The Following

- 1) There are two numbers such that sum of the numbers is 50 and their difference is 14.
Find the difference of their cubes .

- 2) Solve the following:

$$\sqrt[3]{-1600} \times \sqrt[3]{2560}$$

- 3) Which of the following numbers is a perfect cube?

27003, 998, 24389, 4102

- 4) Which of the following statements is false:

The sum of the cubes of the first n natural numbers is equal to the square of their sum

A number that has the last digit as 6 will have 6 as the last digit of its cube

All numbers that ends with '000' will be perfect cubes

If a number is divisible by a prime number p then the cube of that number is divisible by p^3

- 5) Find the value of A if

$$\sqrt[3]{500 \cdot A} = 10$$

Choose correct answer(s) from given choice

- 6) If you subtract a number x from 16 times that number, and then take the cube of the difference, what will the result be?

a. $4096x^3$

b. $3375x^3$

c. $3412x^2$

d. $3303x^2$

- 7) What is the value of $\sqrt[3]{\frac{1728}{24389}}$

a. $\frac{12}{29}$

b. $\frac{144}{29}$

c. $\frac{15}{29}$

d. $\frac{29}{12}$

- 8) What is the value of $\sqrt[3]{\frac{-216}{2197}}$