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#### Answer the questions

- (1) If  $x^{32} + 32$  is divided by (x + 1), find the remainder.
- (2) If  $f(x) = -4x^2 + 3\sqrt{2}x + 5$  find the value of  $f(\sqrt{2})$ .
- (3) If  $\frac{x}{v} + \frac{y}{x} = 1(x, y \neq 0)$ . find value of  $x^3 + y^3$ .

#### Choose correct answer(s) from given choice

(4) If  $f(x) = ax^2 + bx + c$ , and f(1) = 0 and f(-1) = 5, then find the value of a + c.

a. 2.5	b. 3.5
c. 3	d. 1.5

(5) If 7y² + ky + 10 = (y + 5)(7y + 2), find the value of k.
a. 32
b. 3

(6) Find sum of zeroes of polynomial a<sup>2</sup> + 6a + 8.

a6	b4
c5	d. 7

(7) Find the remainder when  $x^3 - x^2 + x + 6$  is divide by x + 1.

a. 1	b. 2
c. 4	d. 3

(8) Find multiplication of zeroes of polynomial  $\rho^2$  -  $16\rho$  + 63.

a.	63	b. 31.5

(9) If  $f(b) = -3b^2 - 5b - 5$ , the value of f(2b) + f(-b) = ?

# **Grade 9 Polynomials Practice Test**

**Padhraic Smyth** 

## **Grade 9 Polynomials Practice Test:**

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