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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 $\frac{x}{y} + \frac{y}{x} = 1$ ($x, y \neq 0$), 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 $f(-1) = 5$, find the value of $a + c$.
- a. 2.5 b. 3.5
c. 3 d. 1.5
- (5) If $7y^2 + ky + 10 = (y + 5)(7y + 2)$, find the value of k .
- a. 32 b. 37
c. 42 d. 31
- (6) Find sum of zeroes of polynomial $a^2 + 6a + 8$.
- a. -6 b. -4
c. -5 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 $p^2 - 16p + 63$.
- a. 63 b. 31.5
c. -63 d. 126
- (9) If $f(b) = -3b^2 - 5b - 5$, the value of $f(2b) + f(-b) = ?$
- a. $-15b^2 - 5b + 10$ b. $-15b^2 - 5b - 10$
c. $-15b^2 + 5b - 10$ d. $15b^2 - 5b - 10$

Grade 9 Polynomials Sample Test Answers

Hussin A.Rothana



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