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Polynomials · Worksheet

15 questions · 38 marks · A-E

PK-M-PO-WS Generated 2 Nov 2026

Instructions: Solve on this sheet or separate paper. **Label each answer with its question number (Q1, Q2 ...).** When done, upload one PDF of all your answers on LazyTopper to get it graded with full solutions.

Section A

1 mark each

Q1. Two taps can each fill an empty water tank alone in α hours and β hours respectively, where α and β are the zeroes of $x^2 - 9x + 18$. If both taps are opened together, in how many hours will the empty tank be filled?

(a) 2 hours (b) 9 hours (c) 4.5 hours (d) 18 hours

Q2. A quadratic polynomial can have at most 2 zeroes. A cubic polynomial can have at most

(a) 2 zeroes (b) 4 zeroes (c) 6 zeroes (d) 3 zeroes

Q3. If the polynomial $ax^2 + bx + c$ has one zero as 2 and product of zeroes is 3, then the other zero is:

(a) 3/2 (b) 1/2 (c) 2/3 (d) 3

Q4. The graph of a quadratic polynomial f(x) passes through (5,0), (0, –1) and (–2, 0). The two factors of the polynomial are

(a) (x + 2), (x – 5) (b) (x + 5), (x – 2)

(c) (x + 1), (x – 5) (d) (x – 1), (x + 2)

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Q5. If the zeroes of a polynomial p(x) are –3 and 8, then p(x) equals

(a) $x^2 + 5x - 4$ (b) $(x + 3)(-x + 8)$

(c) $a(x^2 + 5x - 24)$ (d) $x^2 - 24$

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