

UNIT 23 EXERCISES 1-5

QUADRATICS

- 2002A 1. Compute the sum of all the roots of $(2x + 3)(x - 4) + (2x + 3)(x - 6) = 0$.
(A) $7/2$ (B) 4 (C) 5 (D) 7 (E) 13

- 2002B 2. What is the value of

$$(3x - 2)(4x + 1) - (3x - 2)4x + 1$$

when $x = 4$?

- (A) 0 (B) 1 (C) 10 (D) 11 (E) 12
- 2018A 5. What is the sum of all possible values of k for which the polynomials $x^2 - 3x + 2$ and $x^2 - 5x + k$ have a root in common?
(A) 3 (B) 4 (C) 5 (D) 6 (E) 10