

Homework

p. 383: 7-11 (odds), 15, 24, 29

NUMBER OF SOLUTIONS OR ZEROS Identify the number of solutions or zeros.

7. $g(s) = 12s^7 - 9s^6 + 4s^5 - s^3 - 20s + 50$

9. ★ **MULTIPLE CHOICE** How many zeros does the function $f(x) = 16x - 22x^3 + 6x^6 + 19x^5 - 3$ have?

(A) 1

(B) 3

(C) 5

(D) 6

FINDING ZEROS Find all zeros of the polynomial function.

11. $f(x) = x^4 + 5x^3 - 7x^2 - 29x + 30$

15. $f(x) = x^4 + x^3 + 2x^2 + 4x - 8$

WRITING POLYNOMIAL FUNCTIONS Write a polynomial function f of least degree that has rational coefficients, a leading coefficient of 1, and the given zeros.

24. $2, -i, i$

29. $-4, 1, 2 - \sqrt{6}$