

Do You Know?

Intermediate Algebra, by R. Rusczyk and M. Crawford

If you can solve nearly all of the following problems with little difficulty, then the Art of Problem Solving text **Intermediate Algebra** would only serve as a review for you.

1. Solve for real and complex solutions to each of the following equations:

(a) $7x^2 - 17x = -101$

(b) $\sqrt{x-5} + \sqrt{x+15} = 10$

(c) $\sqrt[3]{x^2-1} + \frac{20}{\sqrt[3]{x^2-1}} = 12$

(d) $x^6 = 1$

2. The sum of the roots to a certain quadratic equation is 20. The product of the roots is 91. What are the roots of the quadratic?
3. Find integers x and y ($x > y$) that satisfy $x + y + xy = 223$ and $x^2y + xy^2 = 5460$.
4. Simplify this expression: $\sqrt[3]{161 - 72\sqrt{5}}$
5. Factor completely $6x^8 - 25x^7 - 31x^6 + 140x^5 - 6x^3 + 25x^2 + 31x - 140$.
6. If a is an integer, what rational numbers could satisfy the equation $6x^3 - 17x^2 + ax = 35$?
7. Find integers a , b , and c such that the equation $x^4 + ax^3 + bx^2 + cx + 4 = 0$ has four distinct integer solutions.
8. For $x > 0$, find the minimum possible value of $4x + \frac{9}{x}$.
9. If $x + \frac{1}{x} = 5$, find the value of $x^5 + \frac{1}{x^5}$.
10. If $f(n)$ is a second degree polynomial such that $f(0) = 7$, $f(1) = 13$, and $f(2) = 23$, find $f(3)$.
11. What is the sum of the coefficients in the expansion of $(4x - 2y)^8$?
12. For how many of the first 500 natural numbers, n , will the equation

$$n = [2x] + [4x] + [8x] + [20x]$$

have solutions?

13. Find (x, y, z) such that

i $x + y + z = 23$, and

ii $xy + yz + zx = 144$, and

iii $xyz = 252$, and

iv $x > y > z$

14. If $P(x)$ denotes a fifth degree polynomial such that $P(k) = \frac{k}{k+1}$ for $k = 0, 1, 2, 3, 4$, and 5 , determine $P(6)$.
15. Find all functions that satisfy the identity $f(x+5y) + f(x-5y) = 2x^2 + 50y^2$.

Posttest Algebra 1

Tobias Bleicker



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