

Sample Intermediate Algebra Questions

Directions: Solve each problem and choose the correct answer. For some questions, the fifth choice for an answer will be "Not given." Whenever none of the first 4 possible answers is correct, choose "not given" as your answer.

Do not linger over problems that take too much time. Solve as many as you can; then return to the others in the time you have left.

1. One solution to the equation $x^2 + 10x + 16 = 0$ is:	A. 2 B. 8 C. 12 D. -4 E. -2
2. Find the x-intercept for each of the following lines. Which line has an x-intercept of -2?	A. $4x - 2y = 4$ B. $2x - 4y = 4$ C. $3x + 7y = -6$ D. $7x - 4y = 21$ E. $5x + 2y = -15$
3. Which of the following points is a solution to the given system of linear equations? $3x - 2y = -7$ $2x - 5y = -12$	A. (-1,2) B. (-2,1) C. (-2,-1) D. (2,1) E. no solution
4. If y is not equal to 0, find the value of x: $\frac{(x-1)^5 y^3}{y^3} = 0$	A. y B. y^1 C. 0 D. 1 E. $x - 1$
5. If a is not equal to 0 and b is not equal to 0, simplify: $\frac{ab - 1}{a - \frac{1}{b}}$	A. a B. $a - b$ C. ab D. $1 - ab$ E. b