

Sample Elementary 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. If $5 \times 10^n = 0.005$, then $n = ?$	A. -5 B. -3 C. -2 D. 2 E. 3
2. If $x = -3$, then $x^2 - 2x + 1 = ?$	A. 16 B. 4 C. 1 D. -11 E. -14
3. Which of the following give $6a^2b^3 - 3a^2b$ in factored form?	A. $3a^2b(2b^2)$ B. $3a^2(2b^2 - 1)$ C. $3ab(2ab^2 - 1)$ D. $3a^2b(2b^2 - 1)$ E. $a^2b(6b^2 - 1)$
4. For all x is not equal to 0 and y is not equal to 0: $\frac{(3x^{-2}y^3)^2}{xy} = ?$	A. $9x^3y^8$ B. $\frac{9y^4}{x}$ C. $\frac{9y^4}{x^2}$ D. $\frac{9y^5}{x^5}$ E. $\frac{9y^7}{x^5}$