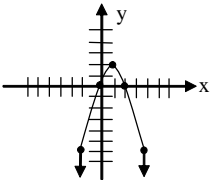


Sample College Algebra Questions

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.

<p>1. If $f(x)=x^2+kx+12$ and $f(-1)=6$, then $k = ?$</p>	<p>A. 3 B. 4 C. 7 D. -4 E. -6</p>
<p>2. Which of the following is the solution to the system of equations:</p> $\frac{2}{x} + \frac{1}{y} = -2$ $\frac{5}{x} - \frac{3}{y} = -16$	<p>A. (2, -2) B. (-2, 2) C. ($\frac{1}{2}$, $-\frac{1}{2}$) D. ($-\frac{1}{2}$, $\frac{1}{2}$) E. (-1, 0)</p>
<p>3. Which of the following equations determines the graph shown?</p> 	<p>A. $-2x^2+4x=y$ B. $2x^2-4x=y$ C. $x^2+4x+4=y$ D. $x^2-4x+2=y$ E. $4x^2+2x+2=y$</p>
<p>4. Which of the following equal(s) $\log 25$?</p> <p>I. $\log 5 + \log 5$ II. $\log 20 + \log 5$ III. $2 \log 5$</p>	<p>A. I only B. II only C. III only D. I and II only E. I and III only</p>
<p>5. A store owner earns \$2,000.00 a week on the sale of one type of shirt. If he reduces the price by \$4.00 per shire, he can generate more business and sell 25 more shirts per week while still generating the same \$2,000.00. At what price did he sell each shirt originally?</p>	<p>A. \$25.00 B. \$20.00 C. \$16.00 D. \$15.00 E. \$ 8.00</p>