

Questions 1-3: Solve systems of equations.





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#### Questions 4-6: Factor quadratic expressions and reveal the zeros of a function.





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**Questions 7-9:** Evaluate the function.

<b>7.</b> Use the graph to find the valu	e of <i>f</i> (2).	f(x)				
Circle your answer: -4 -3 -2 -1 -0.6 1 2 3 4 5	0 0.6 6 7 8					
<b>8.</b> For the function $g(x) = x + 6$ , find the value of $g(-4)$ .		<b>9.</b> For the function $h(x) = x^2 + 5$ , find the value of $h(3)$ .				
	Answer:	Answer:				



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**Questions 10-12:** Determine if a function is linear or non-linear.

<b>10.</b> Given the function of $f(x)$ provided in the table, circle the answer choice that makes the statement true.	x	0	1	2	3	5				
	f(x)	-4	-1	2	5	8				
"The function represented in the table is"										
<ul> <li>non-linear because the values of x and f(x) always change at a constant rate</li> <li>non-linear because the values of x and f(x) do not always change at a constant rate</li> <li>linear because the values of x and f(x) always change at a constant rate</li> <li>linear because the values of x and f(x) do not always change at a constant rate</li> </ul>										
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<b>11.</b> Given the function of $g(x)$ provided in the table, circle the answer choice that makes the statement true.	x	0	1	2	3	5				
	g(x)	-4	-1	2	5	11				
"The function represented in the table is"										
<ul> <li>non-linear because the values of x and g(x) always change at a constant rate</li> <li>non-linear because the values of x and g(x) do not always change at a constant rate</li> <li>linear because the values of x and g(x) always change at a constant rate</li> <li>linear because the values of x and g(x) do not always change at a constant rate</li> </ul>										
<b>12.</b> Circle all of the linear functions.										
$f(x) = x^2 + 5$ $g(x) = 2x + 5$ $h(x)$	= 2 <sup><i>x</i></sup> +	5	k(x)	= <i>x</i>						



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