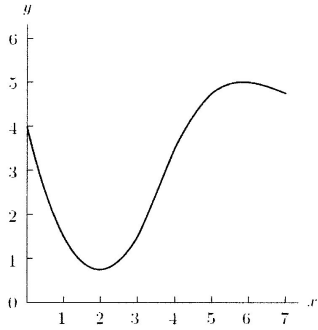


**Reminders:** Please **show all your work** neatly on this worksheet.

This should be some of your most careful work!

Name: \_\_\_\_\_

	<i>Show your work neatly (when relevant).</i>	<i>Copy down your final answer.</i>
1.	Solve and give the solution as a roster: $-7 x  + 6 = 4$	
2.	Solve and give the solution as a roster: $ 2p - 4  =  5 - p $	
3.	For $f(-3)$ find the value of $f(x) = 2 x  - 11$ : Give your solution as an ordered pair.	
4.	Solve, graph and give your solution set as an interval: $ x  < -3$ Show your graph this space.	
5.	Solve, graph and give your solution set as an interval: $ x  \geq -5$ Show your graph this space.	
6.	Solve, graph and give your solution set as an interval: $3 x  - 1 \geq 11$ Show your graph this space.	
7.	Solve, graph and give your solution set as an interval: $ 3x - 4  \leq 25$ Show your graph this space.	
8.	Does this represent a function? Explain why or why not.	

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9.	Does the following represent a function? Explain why or why not.	<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>3</td> </tr> <tr> <td>2</td> <td>4</td> </tr> <tr> <td>3</td> <td>4</td> </tr> <tr> <td>4</td> <td>5</td> </tr> </tbody> </table>	x	y	2	3	2	4	3	4	4	5	
x	y												
2	3												
2	4												
3	4												
4	5												
10.	Does the following represent a function? Explain why or why not. $y = x^2 + 2$												
	Answer questions 11-12 using the following table that represents a function.	<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>-1</td> <td>-8</td> </tr> <tr> <td>0</td> <td>2</td> </tr> <tr> <td>0</td> <td>-2</td> </tr> <tr> <td>3</td> <td>4</td> </tr> </tbody> </table>	x	y	-1	-8	0	2	0	-2	3	4	
x	y												
-1	-8												
0	2												
0	-2												
3	4												
11.	Find $f(-1)$												
12.	Find the $x$ for which $f(x) = 2$												
	<p>Using the following graph answer questions 13-15.</p>												
13.	Find $f(0)$ . Circle your answer on the graph to show work.												
14.	Find $x$ for which $f(x) = 2$ Box your answer on the graph to show work.												
15.	Which of the answers represents the $y$ -intercept? Write the correct ordered pair.												
16.	Factor completely. $27x^3y^2 - 18xy^3 + 9x^2yz$												
17.	Factor completely. $16x^2 + 25$												

**Reminders:** Please **show all your work** neatly on this worksheet.

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18.	Factor completely. $x^2 + 11x + 24$	
19.	Factor completely. $4x^2 + 4x + 1$	
20.	Factor completely. $x^2(c + 2) - 7x(c + 2) - 18(c + 2)$	
21.	Factor completely. $4xy - 3x - 8y + 6$	
22.	Factor completely. $144x^2 - 1$	
23.	Factor completely. $27x^3 - 1$	
24.	Factor completely. $9x^2 + 12x + 4$	
25.	Factor completely. $5x^2 + 12xy + 4y^2$	