## Algebra For Designers Final

Name:

\_\_\_\_\_ Date:

1. Plot the points P1 (-2,-3) and P2 (4,6) on the graph and write the formula for the line.



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2. Plot the following lines on the grid and label them.



3. Simplify (3x+y)(x-3y)





Volume	Area	t
$16a^{4}b^{6}$	$a^2b^6$	
9s+3t		3
	10m+1	2n

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Variable	Description	Value
ID	Inside diameter in	0.75 in.
	inches	
OD	Outside diameter in	1.0 in.
	inches	
Н	Height in inches	24.00 in.

8. Determine the volume of a pipe that has the following values.

9. What is the surface area of the pipe in problem 9? What is the volume of cadmium if a thickness of 0.0002 inch is applied?

10. Create a formula for the volume of the rectangular tube.

