MATH 111 EXAM 1, Fall 2007

Sno	w all work!	Name:	Score
1.	Given the points $P(4,-5)$ and $Q(1,-2)$, find:		1
	a) The distance $d(P,Q)$.	b) The midpoint of \overline{PQ}	2
	(1) The distance w(1, 4).	s) The imapoint of Fig.	3
			4
			5
			6
			7
	Ans: a) Solve for x : $2(3+2x) = -2(x-4)$.	Ans: b) Solve for y : $y(1+2y) = (2y-1)(y-2)$.	8
2.	a) Solve for x : $2(3+2x) = -2(x-4)$.	b) Solve for y : $y(1+2y) = (2y-1)(y-2)$.	9
			10
			Tot
	Ans:	Ans:	
3.	Solve the Equations:		
	a) $2x^2 - 5x + 3 = 0$	b) $x^2 + x = 4$	
	Ans:	Ans:	
		111101	•
1 1	Find the equations of the lines passing through:		
4.	Find the equations of the lines passing through: a) The points (2.4) and (1.5)	b) The point (1.2) and \perp to the line $3x - 6y - 15$	2
4.	Find the equations of the lines passing through: a) The points (-2,4) and (1,5).	b) The point (1,2) and \perp to the line $3x - 6y = 15$	3.
4.		b) The point (1,2) and \perp to the line $3x - 6y = 13$	3.
4.		b) The point (1,2) and \perp to the line $3x - 6y = 13$	3.
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	a) The points (-2,4) and (1,5). Ans:	Ans:	3.
5.	a) The points (-2,4) and (1,5).		3.
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	a) The points (-2,4) and (1,5). Ans: a) Find the real solutions of: $7 + \sqrt{x-1} = x$.	Ans:	3.
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Part II.		Name:	
6.	. A bank loaned out \$12,000, part of it at the rate of 8% and the rest at 12% per year. If the interest received		
	totalled \$1,300, how much was loaned at 8%?		
		Ans:	
7.	Solve the following inequalities:	Alis.	
'	a) $-3 < 3 - 2x < 9$.	b) $ x+4 \ge 2$.	
		~) ~ 1 <u>- 1 = -</u> .	
8.	Write in the form $a + ib$		
	a) i^{-25} .	b) $\frac{2-i}{3+i}$.	
		3+i	
	Ans:	Ans:	
9.	Solve the following system of equations:		
	2x - 3y = -1		
	10x + y = 11		
		Ans:	
10.	Solve the following system of equations:		
-0.	Solve the following system of equations: $x^2 - 4y^2 = 16$		
	$\begin{vmatrix} x & 4y & -10 \\ 2y - x & = 2 \end{vmatrix}$		
		A 15-7	
	Evtra Space	Ans:	
	Extra Space		