MATH 1712 D1-D3

Ouiz #1

Full Name

Page 1 of 2

Version A

January 14, 2009

Circle your TA's name:

D1 - Lacy Hardcastle

D2 - Kyla Hewell

D3 - Kelly Robinson

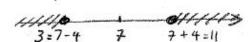
- Solve each equation. 1.
 - (a) $5x^2 + 6x = 8$ $5x^2 + 6x - 8 = 0$ (5x-4)(x+2)=0

(10 pts.)

(b) $|x-7| \ge 4$

The distance between x and 7 is greater than or equal to 4.

(10 pts.)



Find an equation of the line that passes through the point (-2, 3) and is parallel to the line 2. 5x + 4y = 1. same slope

5x+4y=1 $y=\frac{-5x+1}{4}=-\frac{5}{4}x+\frac{1}{4}$

(10 pts.)

 $y = -\frac{5}{4}x - \frac{5}{2} + 3$ $(x_1, y_1) = (-2, 3)$ $y - y_1 = m(x - x_1)$ $y - 3 = -\frac{5}{4}(x - (-2))$ $y = -\frac{5}{4}x + \frac{1}{2}$

MATH 1712 D1-D3 Quiz #1 Full Name W i

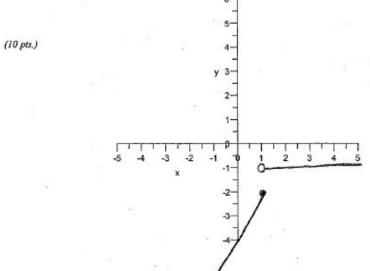
(Prir/119 Page 1 of 2

Version A January 14, 2009

Circle y0ur'TA's name: D1 — Lacy Hardcastle D2 — Kyla. Hewell D3 Kelly Robinson

1. Solve each equation.

MATH 1712 D1-D3	Quiz #1 Full Name	Key	
Page 2 of 2	Version A	(Frint)	January 14, 20
Circle your TA's name:	D1 - Lacy Hardcastle D2	– Kyla Hewell	D3 – Kelly Robin
 Find the center and 	I radius of the circle $x^2 - 6x + y^2$	+2y+6=0	
Complet	e. the source in	x + u.	
(2 ² -1)	1 + (42 + 24	1=-6	
(1-01	e the squares in $(y^2 + 2y + 9) + (y^2 + 2y +$	1	L9+1
(X - 6 X	+4)+(4+24.	+1) = -6	- 1 - 1
(10 pts.) (X - 3)	+ (9+1)= 5	-	
	J		
Conta	-= (3,-1) == \sqrt{5}		
on di	- 15=		
naca	O - V5		
Sketch the graph o	f the piecewise function $f(x) = \begin{cases} x \\ 0 \end{cases}$	$2x-4 x \le 1$	
4. Sketch the graph o	t the precewise function $f(x) = 1$	-1 x > 1	



Print) Page 2 of 2 Version

Circle your TA's name: D1 — Lacy Harclcastle D2 — Kyla Hewell D3 — Kelfy Robinson

3. Find the center and radius of the circle x2 - 6x + yz 2y + 6 = 0