

NAME _____ QUIZ I Due: Friday, Oct. 2
please print clearly MATH 153 25 points

Open book, open notes, but you must do your own work. In particular, no “internet” help.
To receive credit, show all appropriate work.
Neatness, clarity and quality of work will be worth an unspecified number of points.
Please use pencil, otherwise this quiz will not be graded.

(10) 1. Find the radius r and center C of the circle: $x^2 + 6x + y^2 - 14y = -22$.

Also find, if they exist, the x and y intercepts.

Remember to simplify.

Put your answer in the space provided.

Center $C =$

Radius $r =$

(5) 2. Solve for x : $|6x - 7| - 5 = 0$.

(5) 3. Solve for x : $\sqrt{3x + 6} + 4 = x$.

(5) 4. Find and simplify all solutions to the equation: $3x^3 - 10x^2 + 7x = 0$.

Extra Credit (4 points) At what university and in what year did your Math 153 professor earn his Ph.D.? Same question for his wife.