

Name: _____

1. (30 points) The function f below is piecewise-wise defined as:

$$f(x) = \begin{cases} 3x + 5, & x < 2 \\ 3, & x = 2 \\ x^2 + 7, & x > 2 \end{cases}$$

- a) Find $\lim_{x \rightarrow 2^-} f(x)$ and $\lim_{x \rightarrow 2^+} f(x)$ and decide if the limit exist as x approaches 2.
b) Explain briefly whether f is continuous at the point 2.
2. (30 points) a) Find the center and radius of the circle given by
 $4x^2 + 4y^2 + 24x - 32y = 0$
b) Find the equation of the straight line that is perpendicular to the line $2x + 3y = 4$ and passes through $(4, 0)$.
3. (30 points) The following functions are one-to-one, find their inverses
a) $f(x) = \sqrt{2x - 3}$
b) $f(x) = 3x^3 + 7$
4. (30 points) a) Using the limit definition, find the derivative of $f(x) = \sqrt{x + 3}$
b) Use the sum, difference and constant multiple rule to find the derivative of
(i) $f(x) = \sqrt[3]{x^2} + \frac{2}{x^2}$
(ii) $f(x) = 7 - 2x + \frac{1}{2}x^4$

5. (30 points) Evaluate the following limits *analytically*

a) $\lim_{x \rightarrow 1} \frac{x^2 + x - 2}{2x - 2}$

b) $\lim_{x \rightarrow 5} \frac{x^2 - 25}{2x - 10}$

c) (bonus) $\lim_{x \rightarrow -5} \frac{32x^3 + 4000}{x + 5}$

Math 110 Penn State Exams

Lei Shi

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