

Full Name: SOLUTIONS.	Date:					
<ul style="list-style-type: none"><li>Full solutions must be shown for full marks.</li><li>Solutions must demonstrate methods shown in class.</li><li>All solutions must be written in space provided.</li></ul>	K	107	A	13	C	12

1) Rationalize the denominator  $\frac{21}{2\sqrt{x} + \sqrt{14-3x}}$ . Simplify fully.

$$\begin{aligned}
 & \left( \frac{21}{2\sqrt{x} + \sqrt{14-3x}} \right) \left( \frac{2\sqrt{x} - \sqrt{14-3x}}{2\sqrt{x} - \sqrt{14-3x}} \right) = \frac{21(2\sqrt{x} - \sqrt{14-3x})}{7x - 19} \\
 & = \frac{21(2\sqrt{x} - \sqrt{14-3x})}{7x - (14-3x)} = \frac{21(2\sqrt{x} - \sqrt{14-3x})}{7(x-2)} \quad \#/3 \\
 & = \frac{21(2\sqrt{x} - \sqrt{14-3x})}{7x - 14 + 3x} = \frac{3(2\sqrt{x} - \sqrt{14-3x})}{x-2} \\
 & = \frac{6\sqrt{x} - 3\sqrt{14-3x}}{x-2}
 \end{aligned}$$

2) Consider the function  $f(x) = \frac{5x+21}{x}$ . Determine the slope of the tangent to  $f(x)$  at  $x = -6$

$$\begin{aligned}
 m_T &= \lim_{h \rightarrow 0} \frac{f(-6+h) - f(-6)}{h} \\
 &= \lim_{h \rightarrow 0} \frac{\frac{5h-9}{h-6} - \frac{3}{0}}{h} \\
 &= \lim_{h \rightarrow 0} \frac{1}{h} \left( \frac{2(5h-9) - 3(h-6)}{2(h-6)} \right) \\
 &= \lim_{h \rightarrow 0} \frac{1}{h} \left( \frac{10h - 18 - 3h + 18}{2h - 12} \right) \\
 &= \lim_{h \rightarrow 0} \frac{1}{h} \left( \frac{7h}{2h - 12} \right)
 \end{aligned}$$

$$m_T = \frac{1}{-12}$$

$$\begin{aligned}
 f(-6) &= \frac{5(-6) + 21}{-6} \\
 &= \frac{-9}{-3}
 \end{aligned}$$

$$f(-6) = \frac{3}{0}$$

$$\begin{aligned}
 f(-6+h) &= \frac{5(-6+h) + 21}{-6+h} \\
 &= \frac{5h - 30 + 21}{-6+h}
 \end{aligned}$$

$$f(-6+h) = \frac{5h - 9}{h-6}$$

$\therefore$  The slope of the tangent @  $x = -6$  is  $\frac{1}{12}$ .

# Calculus Chapter 1 Test

**Mark Ryan**



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*Test Bank* Kathleen T. McWhorter, 2003-05 McGraw-Hill's SAT Study Plus John J. Diehl, 2009-02-01

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Ma, Barbara L. Murphy, 2000 The Student Handbook is designed to provide students with ready access to information with problem solving techniques and study skill guides that enable them to utilize the information in the most efficient manner

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