Full Name: SOLUTIONS.	Date:					
❖ Full solutions must be shown for full marks.	K	/#7	A	/3	C	/2
❖ Solutions must demonstrate methods shown in class.						
❖ All solutions must be written in space provided.						

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

$$\left(\frac{21}{2\sqrt{x}+\sqrt{14-3x}}\right)\left(\frac{2\sqrt{x}-\sqrt{14-3x}}{2\sqrt{x}-\sqrt{14-3x}}\right)$$

$$= \frac{21\left(2\sqrt{x}-\sqrt{14-3x}\right)}{4x-(14-3x)}$$

$$= \frac{21\left(2\sqrt{x}-\sqrt{14-3x}\right)}{4x-14+3x}$$

$$= \frac{21\left(2\sqrt{x}-\sqrt{14-3x}\right)}{7x-14}$$

$$= \frac{21\left(2\sqrt{x}-\sqrt{14-3x}\right)}{7(x-2)}$$

$$= \frac{3\left(2\sqrt{x}-\sqrt{14-3x}\right)}{x-2}$$

$$\overset{or}{=} \frac{6\sqrt{x}-3\sqrt{14-3x}}{x-2}$$

#/3

2) Consider the function $f(x)=\frac{5x+\frac{21}{12}}{x}$. Determine the slope of the tangent to $f(x)$ at $x=-6$

$$m_T = \lim_{h\to 0}\frac{f(-6+h)-f(-6)}{h}$$

$$= \lim_{h\to 0}\frac{\frac{5h-9}{h-6}-\frac{3}{2}}{h}$$

$$= \lim_{h\to 0}\frac{1}{h}\left(\frac{2(5h-9)-3(h-6)}{2(h-6)}\right)$$

$$= \lim_{h\to 0}\frac{1}{h}\left(\frac{10h-18-3h+18}{2h-12}\right)$$

$$= \lim_{h\to 0}\frac{1}{h}\left(\frac{7h}{2h^2-12}\right)$$

$$m_T = \frac{7}{-12}$$

$$f(-6)=\frac{5(-6)+21}{-6}$$

$$= \frac{-9}{-6}$$

$$f(-6)=\frac{3}{2}$$

$$f(-6+h)=\frac{5(-6+h)+21}{-6+h}$$

$$= \frac{5h-30+21}{-6+h}$$

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

∴ The slope of the tangent @ $x=-6$ is $\frac{-7}{12}$.

Calculus 2 Chapter 7 Test Practice

Greg Jacobs,Joshua Schulman

Calculus 2 Chapter 7 Test Practice:

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