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| Full Name: SOLUTIONS. | Date: |
| <ul style="list-style-type: none"> Full solutions must be shown for full marks. Solutions must demonstrate methods shown in class. All solutions must be written in space provided. | K 10/2 A 1/3 C 1/2 |

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

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

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

$$\begin{aligned} m_T &= \lim_{h \rightarrow 0} \frac{f(-6+h) - f(-6)}{h} \\ &= \lim_{h \rightarrow 0} \frac{\frac{5(-6+h)+21}{-6+h} - \frac{5(-6)+21}{-6}}{h} \\ &= \lim_{h \rightarrow 0} \frac{1}{h} \left(\frac{2(5h-9) - 3(h-6)}{2(h-6)} \right) \\ &= \lim_{h \rightarrow 0} \frac{1}{h} \left(\frac{10h - 18 - 3h + 18}{2h - 12} \right) \\ &= \lim_{h \rightarrow 0} \frac{1}{h} \left(\frac{7h}{2h-12} \right) \end{aligned}$$

$$\begin{aligned} f(-6) &= \frac{5(-6)+21}{-6} \\ &= \frac{-9}{-3} \\ f(-6) &= 3 \\ f(-6+h) &= \frac{5(-6+h)+21}{-6+h} \\ &= \frac{5h-30+21}{-6+h} \\ f(-6+h) &= \frac{5h-9}{h-6} \end{aligned}$$

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

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

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SA Adler



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