

Pre-Calculus and Calculus Sudoku

$\frac{d}{dx} 6x$	$\tan^2\left(\frac{\pi}{3}\right)$	$\sec\left(\frac{\pi}{3}\right)$				Clue 1	x^0 if $x \neq 0$	
$\ln e$	$\frac{1}{2^{-3}}$		$\frac{d}{dx}(3x-1)$		$\frac{d}{dx}(2x-9)$		$3^2 - 3^1$	Clue 8
$\lim_{x \rightarrow \infty} \frac{5x+1}{x-3}$						Clue 2		
$\lim_{x \rightarrow 2} \frac{x^2-4}{x-2}$	$7x^{\sin \pi}$		Even prime	$\lim_{x \rightarrow \infty} \frac{91-9x^2}{34-x^2}$	$16\cos\left(\frac{\pi}{3}\right)$			
	$2\sin^2 \theta + 2\cos^2 \theta$		$(-5)(i^2)$	$\ln e^6$	$\left(\frac{1}{3}\right)^{-1}$	Clue 3	$\sqrt[3]{343}$	
$64^{\frac{1}{2}}$						Clue 4	$\frac{d}{dx}(\pi+9x)$	Clue 9
			b if $3^2 + b^2 = 5^2$	$2\tan\left(\frac{\pi}{4}\right)$		Clue 5		Clue 10
	$\ln e^9$	$\sum_{k=1}^3 k$		$\sec^3\left(\frac{\pi}{3}\right)$		Clue 6		
$\csc\left(\frac{\pi}{6}\right)$			$\lim_{x \rightarrow 3} \frac{x^2-9}{x-3}$			Clue 7		Clue 11

Clue 1: $\lim_{h \rightarrow 0} \frac{(4+h)^2 - 4^2}{h}$

Clue 2: $\lim_{h \rightarrow 0} \frac{3(x+h) - 2 - 3x + 2}{h}$

Clue 3: $\lim_{x \rightarrow 2} \frac{x^2 - 2^2}{x - 2}$

Clue 4: $f'(0)$ if $f(x) = \sin(2x)$

Clue 5: The only critical value of $f(x) = x^2 - 10x$

Clue 6: The x-value of the only point of inflection for $f(x)$ if $f''(x) = (x+3)^2(x-7)$

Clue 7: The x-value of the vertical asymptote for $y = \frac{(x+2)^2}{(x-1)}$

Clue 8: $\lim_{x \rightarrow \infty} \frac{4x^2 - ex + \pi}{x^2 + \pi e}$

Clue 9: $\lim_{h \rightarrow 0} \frac{3(x+h) - 3x}{h}$

Clue 10: sum of our room number's digits

Clue 11: The number of critical values for $f(x) = \sin(x)$ on the interval $[0, 9\pi]$