



**UNIVERSIDAD DEL SURESTE**

**MEDICINA HUMANA**

**FRANCISCO IGNACIO ORDOÑEZ SALVATIERRA**

**BIOMATEMATICAS**

**DEL SOLAR VILLAREAL GUILLERMO**

**TAREA**

**2 SEMESTRE**

**09/03/22**

**TAPACHULA, CHIAPAS.**

$$\lim_{x \rightarrow 5} (2x-1) = (2(5)-1) = 10-1 = 9 \quad |y=9|$$

$$\lim_{x \rightarrow 2} (3x+2) = (3(2)+2) = 6+2 = 8 \quad |y=8|$$

$$\lim_{x \rightarrow 3} (4x+10) = (4(3)+10) = 12+10 = 22 \quad |y=22|$$

$$\lim_{x \rightarrow 10} (2x-2) = (2(10)-2) = 20-2 = 18 \quad |y=18|$$

$$\lim_{x \rightarrow 5} (10x-3) = (10(5)-3) = 50-3 = 47 \quad |y=47|$$

$$\lim_{x \rightarrow 6} (6x+2) = (6(6)+2) = 36+2 = 38 \quad |y=38|$$

$$\lim_{x \rightarrow 8} (5x-7) = (5(8)-7) = 40-7 = 33 \quad |y=33|$$

$$\lim_{x \rightarrow 2} (3x+1) = (3(2)+1) = 6+1 = 7 \quad |y=7|$$

$$\lim_{x \rightarrow 3} 5 = 5$$

$$\lim_{x \rightarrow -4} 2x^3 = 2(-4)^3 = 2(-64) = -128 \quad |y=-128|$$

$$\lim_{x \rightarrow 9} 12 = 12$$

$$\lim_{x \rightarrow 7} 8x = 8(7) = 56$$

$$|y = 56|$$

②

$$\lim_{x \rightarrow -5} (3x+2) = 3(-5)+2 = -15+2 = -13$$

$$\begin{aligned} \lim_{x \rightarrow 5} (2x^2 - 5x + 3) &= 2(5)^2 - 5(5) + 3 = 2(25) - 25 + 3 \\ &= 50 - 25 + 3 = 28 \end{aligned}$$

$$|y = 28|$$

$$\lim_{x \rightarrow 3} (x^3 - 2x^2 + x + 7) = (3)^3 - 2(3)^2 + (3) + 7 = 27 - 2(9) + 3 + 7$$

$$27 - 18 + 3 + 7 = 19$$

$$|y = 19|$$

$$\lim_{x \rightarrow 5} (3x^3 + 5x^2 + 2x + 10) = 3(5)^3 + 5(5)^2 + 2(5) + 10$$

$$= 3(125) + 5(25) + 10 + 10 = 375 + 125 + 20 = 520$$

$$\lim_{x \rightarrow 10} (10x^3 + 5x^2 - x + 7) = 10(10)^3 + 5(10)^2 - (10) + 7 = 10(1000) + 5(100) + 7$$

$$10,000 + 500 - 10 + 7 = 10,497$$

$$\lim_{x \rightarrow 2} (-5x^3 - 3x^2 + 2x - 8) = -5(2)^3 - 3(2)^2 + 2(2) - 8$$

$$= -5(8) - 3(4) + 4 - 8 = -40 - 12 + 4 - 8 = -56$$

$$\lim_{x \rightarrow 5} (x+2)(3x+10) = ((5)+2)(3(5)+10) = (7)(15+10)$$

$$= (7)(25) = 175$$

$$\lim_{x \rightarrow 3} (3x+12)(4x) = (3(3)+12)(4(3)) = (9+12)(12)$$

$$(21)(12) = 252$$