

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

$$\begin{aligned} \text{dim}_{x=3} (x^3 - 2x^2 + x + 7) &= (3)^3 - 2(3)^2 + 3 + 7 \\ &= 27 - 2(9) + 3 + 7 \\ &= 27 - 18 + 3 + 7 = 19 \end{aligned}$$

$$\begin{aligned} \text{dim}_{x=5} (3x^3 + 5x^2 + 2x + 10) &= 3(5)^3 + 5(5)^2 + 2(5) + 10 \\ &= 3(125) + 5(25) + 10 + 10 \\ &= 375 + 125 + 10 + 10 = 520 \end{aligned}$$

$$\begin{aligned} \text{dim}_{x=10} (10x^3 + 5x^2 - x + 7) &= 10(10)^3 + 5(10)^2 - 10 + 7 \\ &= 10(1000) + 5(100) - 10 + 7 \\ &= 10,000 + 500 - 10 + 7 = 10,497 \end{aligned}$$

$$\begin{aligned} \text{dim}_{x=2} (-5x^3 - 3x^2 + 2x - 8) &= -5(2)^3 - 3(2)^2 + 2(2) - 8 \\ &= -5(8) - 3(4) + 4 - 8 \\ &= -40 - 12 + 4 - 8 = -56 \end{aligned}$$

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

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

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

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

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

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

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~~Jim (2x-1)~~
~~x=5~~

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

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

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

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

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

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

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