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LIMITE CE SE REZOLVĂ

PRIN DESCOMPUNERE

Calculați:

$$1) \lim_{x \rightarrow 1} \frac{x^2 - 1}{x^2 - 4x + 3} \quad \text{si}$$

$$\lim_{x \rightarrow 2} \frac{x^2 - 5x + 6}{x^2 - 6x + 8}$$

$$2) \lim_{x \rightarrow -1} \frac{3x^2 + 4x + 1}{x^3 + 1} \quad \text{si}$$

$$\lim_{x \rightarrow 1/3} \frac{3x^2 - 4x + 1}{6x^2 - 5x + 1}$$

$$3) \lim_{x \rightarrow 1} \frac{x^2 - 7x + 6}{7x^2 - 8x + 1} \quad \text{si}$$

$$\lim_{x \rightarrow 1/2} \frac{10x^2 - 7x + 1}{14x^2 - 9x + 1}$$

$$4) \lim_{x \rightarrow 2} \frac{x^3 - 8}{x^2 - 3x + 2} \quad \text{si}$$

$$\lim_{x \rightarrow 1} \frac{x^3 - 7x + 6}{2x^3 + x - 3}$$

$$5) \lim_{x \rightarrow 1} \frac{3x^4 - 5x^3 + 2}{5x^2 + x - 6} \quad \text{si}$$

$$\lim_{x \rightarrow -1} \frac{2x^4 + 5x^2 - 7}{2x^4 + 7x^3 + 5}$$

$$6) \lim_{x \rightarrow 2} \frac{7x^3 - 10x - 36}{x^2 - 4} \quad \text{si}$$

$$\lim_{x \rightarrow 5} \frac{x^3 - 10x - 75}{x^2 - 7x + 10}$$

$$7) \lim_{x \rightarrow 1} \frac{x^2 - x}{2x^2 + x - 3} \quad \text{si}$$

$$\lim_{x \rightarrow 2} \frac{2x - x^2}{3x^2 - 4x - 4}$$

$$8) \lim_{x \rightarrow 2} \frac{x^3 - 3x^2 + 4}{x^2 - 7x + 10} \quad \text{si}$$

$$\lim_{x \rightarrow 1} \frac{x^4 - 1}{x^2 - 1}$$

$$9) \lim_{x \rightarrow 2} \frac{x^3 - 5x^2 + 8x - 4}{x^2 - 10x + 16} \quad \text{si}$$

$$\lim_{x \rightarrow 1} \frac{x^8 - 1}{x^2 - 1}$$

$$10) \lim_{x \rightarrow 1} \frac{10x^{11} - 11x^{10} + 1}{(x+1)(x^2 - 2x + 1)}$$

$$\text{si } \lim_{x \rightarrow -1} \frac{10x^{11} + 11x^{10} - 1}{(x^2 - 1)(x - 1)}$$