A: $f(x) = \frac{\sqrt{4x^2 + x + 3}}{2x + 1}$ $Df: 4x^2 + x + 3 \ge 0$

4×2+×+3≥0 D=1-4·(3)·4<0→NETRA'KOREN, U=50 PEATT VEDY

2×41 70 × 4-2 => D= R/ x-2p= C-00/= U(-2;+00)

A) lim Jux4x43 = lim 1x1 J4+1+3 = lim x J4+1+3 = x > +0x 2x+1 x > +0x x (2+1/2) = lim x (2+1/2) = = \(\frac{14}{2} = \)

c) $\lim_{x \to -\frac{14}{2}} \frac{\sqrt{4x^4x+3^7}}{2(x+\frac{1}{2})} = \frac{\sqrt{1+(-\frac{1}{2})+3^7}}{2} = +\infty$

x->-2+2(x+2) = 0+ = +60 => E) lim \(\frac{14\chi + \text{15}}{2(\chi + \frac{1}{2})} \) = \(\text{P} \)

D) lin 14x2+x+3 = 1+(-1)+370 -00 x->-2-2(x+2) 0-

B:
$$f(x) = \frac{x+2}{x^2-q} = \frac{x+2}{(x+3)(x+3)}$$

$$D_{x} = (-\infty; -3)U(-3; 3)U(-3; 5)U(-3; 5)U(-3;$$