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$$\sqrt{\frac{81x^3 - 3}{x + 2}} < 9x + 1$$
 $x \ge \frac{1}{3}$

10 $\frac{81x^3 - 3}{x + 2} > 0$

12 $\frac{81x^3 - 3}{x + 2} < 81x^2 + 1 + 18x$

13 $\frac{81x^3 - 3}{x + 2} > 0$ $\frac{1}{27} > 0 \Rightarrow x^5 > \frac{3}{81} \Rightarrow x^3 > \frac{1}{27} \Rightarrow x > \frac{1}{3}$

14 $\frac{81x^3 - 3}{x + 2} > 0$ $\frac{1}{27} > 0 \Rightarrow x^5 > \frac{3}{81} \Rightarrow x^3 > \frac{1}{27} \Rightarrow x > \frac{1}{3}$

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