$$\frac{\text{RATIONAL FUNCTIONS}}{\text{SIMPLIFY.}} \\ \xrightarrow{4x^{2}(x+3)^{-2} - 24x(x+3)^{-1}} \\ \xrightarrow{4x^{2}(x+3)^{-2} - 24x(x+3)^{-1}} \\ \xrightarrow{(x+3)^{3}} \\ \xrightarrow{(x+3)^{3}} \\ \xrightarrow{(x+3)^{3}} \\ \xrightarrow{(x+3)^{3}} \\ \xrightarrow{(x+3)^{3}} \\ \xrightarrow{(x+3)^{5}} \\ \xrightarrow{(x+3)$$

$$\frac{6(2x+5)^{3/2}(4x-7x^{2})^{1/4}(4-7x) - (1x-7x^{2})^{3/4}(10)(2x+5)^{2}}{[(2x+5)^{3}]^{2}}$$

$$\frac{2(2x+5)^{2}(4x-7x)^{1/4}[3(2x+5)(4-7x) - (4x-7x^{2})(5)]}{(4x-7x^{2})^{1/4}(2x+5)^{6-2}}$$

$$\frac{2[3(\frac{-1/4x^{2}-27x+20}{(4x-7x^{2})^{1/4}(2x+5)^{6}} - 20x + 35x^{2}]}{(4x-7x^{2})^{1/4}(2x+5)^{4}}$$

$$\frac{2[-42x^{2}-81x+60-20x+35x^{2}]}{(4x-7x^{2})^{1/4}(2x+5)^{4}}$$

$$\frac{2[-7x^{2}-101x+60]}{(4x-7x^{2})^{1/4}(2x+5)^{4}}$$

SOLVING RATIONAL EQUATIONS + INFOUGLITIES  $\frac{2(2x_1)(x_1)}{t} = \frac{3}{2} \begin{bmatrix} 2x_1 \\ 2x_1 \\ x_1 \end{bmatrix} \frac{2x_1}{x_1} \frac{2x_2}{x_1} \frac{2x$ a(x+1) + a(ax-1) = 3(ax-1)(x+1) $a_{x+x} + 4_{x-x} = 3(a_{x} + x - 1)$  $6x = 6x^{2} + 3x - 3$ 0= 6x - 3x - 3  $D = 3(2x^2 - x - 1)$  $\partial = 3 (2 \times 1) (x - 1)$ 

September 19, 2024

