













$$F_{\chi}(\chi) = \begin{cases} 0 \\ 1 - (\frac{\sqrt{33}}{2}\chi + \frac{3}{2})^{-3} \\ 1 + (\frac{\sqrt{33}}{2}\chi + \frac{3}{2})^{-3} \end{cases}$$

$$f_{X}(X; \frac{\partial F_{X}}{\partial X}; \frac{3}{3}) = \frac{3}{2} \frac{\sqrt{3}}{2} \times \frac{3}{2} \times$$

2 (53. (L3) )X

Notes











- x ( \\ \frac{1}{2} \times \tau - \pi \)  $\int_{\mathcal{S}} \left( \frac{3}{2} \times + \frac{3}{2} \right)^{3} dx$  $-\chi\left(\frac{53}{2}\chi+\frac{3}{2}\right)^{-3}\sqrt{-9}$ 

+-2/2 (53/x + 3/2) \-\psi

 $-4\left(\frac{53}{2}x+\frac{3}{2}\right)^{-3}-\frac{1}{53}\left(\frac{53}{2}x+\frac{32}{2}\right)^{-2}$  $= -\left(\frac{53}{2} \times 13^{2}\right) \left(\frac{32}{2} \times 13^{$ 

 $= -\left(\frac{53}{2}x + \frac{3}{2}\right) \left(x + \frac{1}{53}\left(\frac{53}{2}x + \frac{3}{2}\right)\right)^{\frac{1}{2}}$ 

 $\begin{array}{c|c}
 & 2 \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{2}{3} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \times + \frac{3}{2} \right) \\
 & \times & + \sqrt{3} \left( \frac{53}{2} \times + \frac{3}{2} \times + \frac{3}{$  $(\frac{53}{2} \times + \frac{3}{2})$   $(\frac{53}{2} \times + \frac{3}{2})$ 



$$\frac{1}{2}\left(\frac{5}{2}\left(\frac{3}{2}\right)\right)$$

$$(\frac{3}{2} \times (\frac{1}{2}))$$
 $(\frac{3}{2} \times (\frac{1}{2}))$ 
 $(\frac{3$ 

$$\frac{9 + \sqrt{3}(2)}{(\sqrt{53} + \sqrt{32})^{3}}$$

$$+ -9 + \sqrt{3}(2)$$

$$\frac{53}{2}(-9) + \frac{3}{2}$$

$$+ \sqrt{3}(2)$$

$$\frac{-9+53(2)}{(53(-9)+32)^3}$$

$$\frac{\sqrt{3}(-9)+32}{\sqrt{3}}$$

$$\sqrt{3}(-9)+32$$

$$\sqrt{3}$$

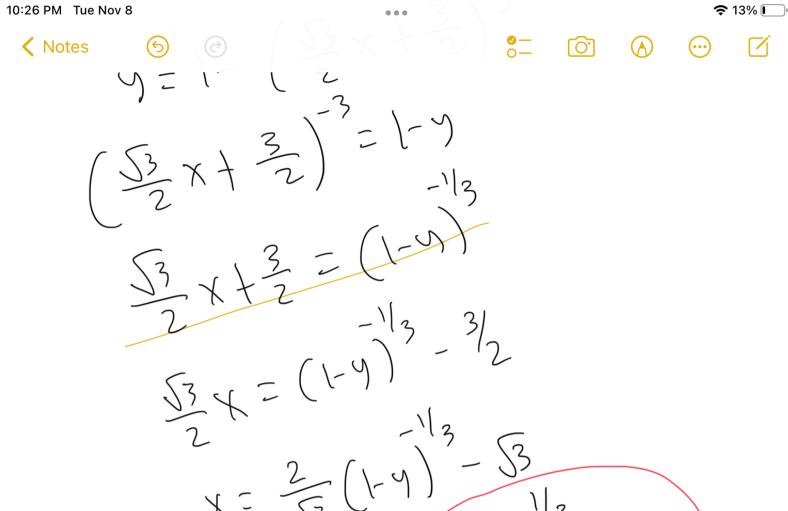
$$y = 1 - \left(\frac{53}{2} \times + \frac{3}{2}\right)^{-3}$$

$$9 = 1 - (2)$$

$$(53 \times 7 + 32) = 1 - 9$$

$$(-13)$$

$$(3) \times 3 = (1 - 9)$$



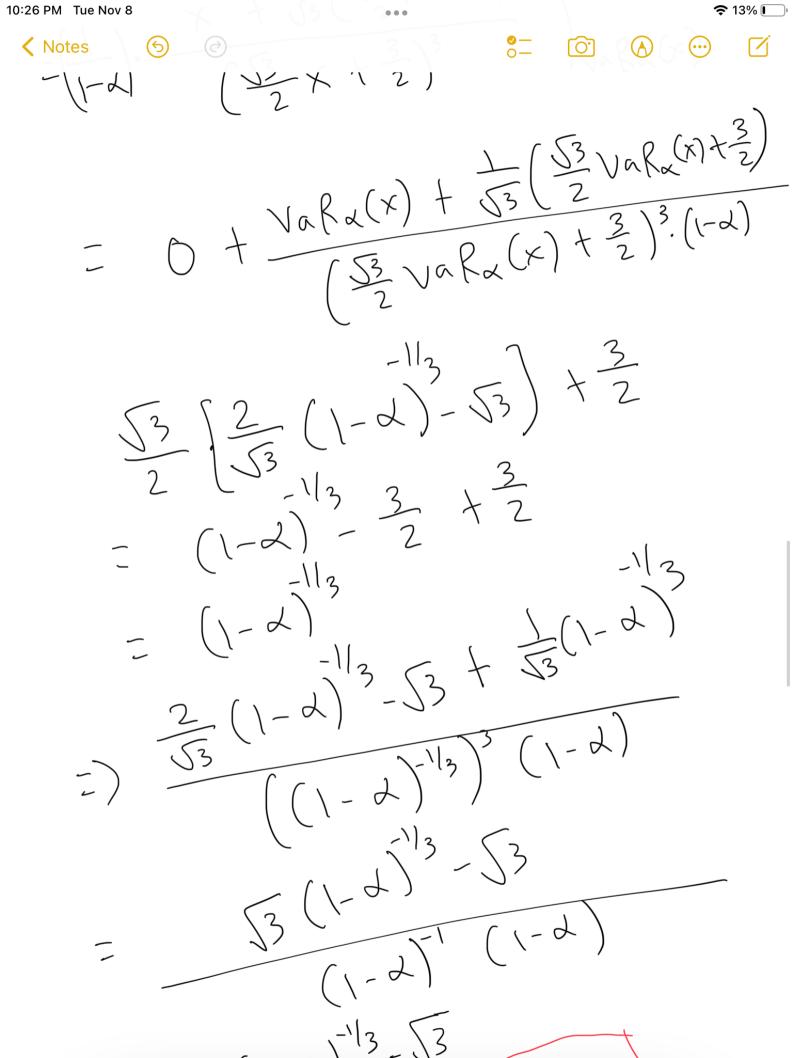
$$\frac{1}{2} + \frac{1}{2} = \frac{1}{3} - \frac{3}{2}$$

$$\frac{1}{3} + \frac{2}{3} = \frac{1}{3} - \frac{1}{3}$$

$$\frac{2}{3} + \frac{2}{3} = \frac{1}{3} - \frac{3}{3}$$

$$\frac{2}{3} + \frac{2}{3} = \frac{1}{3} = \frac{3}{3}$$

VaRx(x) + 53 (2 VaRx(x)+



Notes

6



 $\sqrt{3}(1-4)^{1/3}-53$ (1-2) (1-2)

J3 (1-2)-113-J3

= \(\frac{3}{3}\)\\
= \(\frac{5}{2}\)\(\frac{1}{3}\)\\
= \(\frac{5}{2}\)\(\frac{1}{3}\)\\
= \(\frac{5}{2}\)\(\frac{1}{3}\)\\
= \(\frac{5}{2}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\\
= \(\frac{5}{2}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\\
= \(\frac{5}{2}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\frac{1}{3}\)\(\f

(L, O) 4-X

i) vaRd(x) = \frac{2}{\infty}(1-\d) - \infty3 VaRa (x) = \$ (2)

In Ral F

















$$\frac{1}{3} = \frac{1}{3} = \frac{1}$$

No Ka (x)  $ES_{d}(x) = \frac{P(J^{-1}(d))}{1-d^{-1}(3-1)}$   $ES_{d}(x) = \frac{53(1-d)^{3}-1}{3}$