$$y = \sqrt{3}\sqrt{9-2}x^{2} \Rightarrow \sqrt{3}\sqrt{9-2}x^{2} = 0 \Rightarrow x = \sqrt{2}$$

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3) 
$$\frac{1}{4x} = \frac{\cos(\frac{x}{3})}{\sqrt{3}\sin(\frac{x}{3})+3}$$
 $\frac{1}{2}\sqrt{\frac{2}{3}}\cos(\frac{x}{3})+3+c$ 
 $3\sqrt{\sin(\frac{x}{3})}+3+c = 3\sqrt{3}+c=0 = c=-3\sqrt{3}$ 

4)  $2x^2 + \frac{y^2}{3} = 9$ 
 $\sqrt{27-6x^2} = 0 = \frac{3}{\sqrt{2}}$ 
 $\sqrt{29-2x^2-3}$ 
 $\sqrt$ 

 $\frac{dy}{dx} = ay \int \frac{1}{y} dx \int adx \quad |n(y)| = ax + c \quad |F(x)| = 2 \quad |F(x)| = 2$   $\frac{dy}{y} = adx \quad f(x) = 2 \quad a + c = |n| \quad a = 0 \quad c = |n| = 2$   $e^{a + c} = 2 \quad |A + c| = |n| = 2$   $e^{2a + c} = 2 \quad |F(x)| = e^{|n|} = 2 = 2$   $e^{2a + c} = 2 \quad |F(x)| = e^{|n|} = 2 = 2$   $e^{2a + c} = 2 \quad |F(x)| = e^{|n|} = 2 = 2$   $e^{2a + c} = 2 \quad |F(x)| = e^{|n|} = 2 = 2$ 

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