

52+as+a2 = 5+ ds+ (++3) a classmate $= 5^{2} + (\frac{1}{2}a)^{2} + 2 \times 5 \times 9 + (\frac{1}{2}a)^{2}$ $=(S+\frac{a}{2})^2+(\frac{\sqrt{3}}{2}a)^2$ =) $\frac{1}{(s-q)(s^2+as+q^2)} = \frac{1}{3a^2(s-a)} - \frac{s}{3a^2(s+a)^2+(\sqrt{3}a)^2}$ 3a (Stay2)2+(13a)2 $= \frac{1}{3a^{2}(s-a)} \frac{s+q-q}{3a^{2}(s+q)^{2}+(\sqrt{3}a)^{2}} = \frac{2}{3a} \frac{1}{(s+q)^{2}+(\sqrt{3}a)^{2}}$ $= \frac{1}{3a^{2}(s-a)} \frac{s+a_{12}}{3a^{2}(s+a_{2})^{2}+(\sqrt{3}a_{2})^{2}} + \frac{a_{12}}{3a^{2}(s+a_{2})^{2}+(\sqrt{3}a_{2})^{2}}$ -2 $3a \frac{5(s+9/2)^2+(\sqrt{3}a)^2}{2}$ $\frac{1}{3a^{2}(s-a)} = \frac{s+q_{12}}{3a^{2}(s+q_{12})^{2}+(\frac{3a}{2})^{2}} + \frac{1}{6a} \frac{(s+q_{12})^{2}+(\frac{\sqrt{3}a}{2})^{2}}{(s+q_{12})^{2}+(\frac{\sqrt{3}a}{2})^{2}}$ Turese L.T. \(\frac{2}{3a}\)\(\frac{5(s+a/2)^2+(\frac{13a}{2})^2}{2}\) $= \frac{1}{3a^2} e^{at} - \frac{1}{3a^2} e^{-at/2} \cos \sqrt{3}at + \frac{1}{3}a + \frac{2}{3} \sin \sqrt{3}at$ -2 - at/2 x 1 - 81 n 3at $= \frac{1}{3a^{2}} e^{at} - \frac{1}{3a^{2}} e^{-at/2} \cos \sqrt{3} at + \frac{1}{3\sqrt{3}a^{2}} e^{-2} \sin \sqrt{3} at$ -4 -at/2 on sat $\frac{e^{at}}{3a^2} - \frac{1}{3a^2} = \frac{-at/2}{2} \cos \frac{3}{2} at - \frac{3}{3} \cdot \frac{-at/2}{2} \sin \frac{\sqrt{3}}{2} at$ $= e^{at} - \frac{1}{1} e^{-at/2} \cos \sqrt{3} at - \frac{1}{2} e^{at/2} \sin \sqrt{3} at$ $= \frac{1}{3} e^{at} - \frac{1}{2} e^{at/2} \sin \sqrt{3} at$