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$$\frac{1}{s(s^{2}+9)} = \frac{1}{9} - \frac{1}{9} \cos(3t) \frac{3}{3}$$

$$\frac{1}{s(t)} = \frac{1}{3} \sin(3t) - \frac{1}{9} \cos(3t) + \frac{1}{9} \frac{1}{9}$$

$$\frac{1}{s(t)} = \frac{1}{3} \sin(3t) - \frac{1}{9} \cos(3t) + \frac{1}{9} \frac{1}{9} \frac{1}{9}$$

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