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A ball is attached on opposite sides to pieces of elastic. The elastic is stretched out and one end fixed to the ground and the other end to the ceiling. The ball is pulled vertically down slightly and then released. Its displacement from the equilibrium is X(t)

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$$\frac{dX}{dt} = -b + aX \qquad \frac{dX}{dt} = -b + aX$$

$$\frac{d^2X}{dt^2} = -a\frac{dX}{dt} \qquad \frac{d^2X}{dt^2} = -a\frac{dX}{dt}$$

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