$$-u'' - u = \sin x / v, \int_{1}^{2} (-1) u(0) = 0$$

$$u'(2) - u(2) = 0$$

$$u'' v dx - \int_{1}^{2} u v dx = \int_{1}^{2} v \sin x dx$$

$$u'(2) v (2) - u'(0) v(0) - \int_{1}^{2} u' v' dx + \int_{1}^{2} u v dx = -\int_{1}^{2} v \sin x dx$$

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$$u'(2) v (2) + \int_{1}^{2} u' v' + u v dx = -\int_{1}^{2} v \sin x dx$$

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$$u'(2) v (2) + \int_{1}^{2} u' v' + u v dx = -\int_{1}^$$