You've completed all of the work in this assignment.

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Your answer is correct.

Solve the given nonhomogeneous ODE by variation of parameters or undetermined coefficients. Give a general solution.

$$x^2y'' - 2xy' + 2y = x^3\cos(x)$$

- $y = c_1x + c_2x^2 - x\cos(x)$
- $y = x[A\cos(\ln|x|) + B\sin(\ln|x|)] + x\cos(x)$
- $y = c_1x + c_2x^2 + x\sin(x)$
- $y = c_1x + c_2x^2 + 2x^2\sin(x) + x\cos(x)$
- $y = (c_1 + c_2\ln|x|)x - x\cos(x)$

eTextbook and Media

Attempts: 1 of 3 used

Using multiple attempts will impact your score.
10% score reduction after attempt 2