2010 Mathematics (2)

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Section A

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Section B

11S

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12T

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13X

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14Y

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15**R**

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16S

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17X

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Solution(s):

From user: ar857

18Y

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Solution(s):

From user: ar857

2010184 $2)\int_{-1}^{1}\int_{-2}^{2}\int_{-3}^{3}(x^{2}+y^{2}+z^{2}) dz dy dx = \int_{-1}^{2}\int_{-2}^{2}(5x^{2}+6y^{2}+18) dy dx$ $=\int_{-1}^{1}24x^{2}+72+32 = \frac{48}{3}+2x(72+32)=224$ b) $\int_{0}^{1}\int_{0}^{2}e^{x^{2}}dx dy$ $=\int_{0}^{1}\int_{0}^{4}e^{x^{2}}dx dy$ $=\int_{0}^{1}\int_{0}^{4}e^{x^{2}}dx dy dx = \int_{0}^{1}xe^{x^{2}}dx dy$ $=\int_{0}^{2}\int_{0}^{4}\int_{0}^{4}e^{x^{2}}dx dy dx = \int_{0}^{4}xe^{x^{2}}dx dy dx$ $=\int_{0}^{2}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^{4}\int_{0}^$

19R*

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20T*

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