Assignment 10

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1) The Radon transform, $\mathcal{R}(y^2 \exp(-x^2 - y^2))$, is

- $\sqrt{x^2}(2p^2 \cos^2 \phi + \sin^2 \phi)e^{-x^2}$

- $\sqrt{x^2}(2p^2 \sin \phi \cos \phi)e^{-x^2}$

- $\sqrt{x^2}(2p^2 \sin \phi + \cos^2 \phi)e^{-x^2}$

- $\sqrt{x^2}(2p^2 \sin \phi \cos \phi)e^{-x^2}$

No, the answer is incorrect. Score: 0

Accepted Answers:
$\sqrt{x^2}(2p^2 \sin^2 \phi + \cos^2 \phi)e^{-x^2}$

2) If $f(x, y) = \exp(-x^2 - y^2)$, then $\frac{\partial f}{\partial u_x}$ is

- $\sqrt{x^2}(1 + 2p^2)e^{-x^2}$

- $\sqrt{x^2}(2p^2 - 1)e^{x^2}$

- $\sqrt{x^2}(2p^2 - 2)e^{x^2}$

- $\sqrt{x^2}(2p^2 - 1)e^{x^2}$

No, the answer is incorrect. Score: 0

Accepted Answers:
$\sqrt{x^2}(2p^2 - 1)e^{x^2}$