

Mathematik II/B (WI/ET)

Blatt 10

WT 2024 Stationäre Punkte, Newton-Verfahren, Richtungsableitung

Einführende Bemerkungen

- Vermeiden Sie die Verwendung von Taschenrechnern oder Online-Ressourcen.
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Aufgabe 10.1:

Bestimmen Sie für die gegebenen Koordinaten jeweils

- i) die Jacobi-Matrix und
 - ii) die Determinante der Jacobi-Matrix.
 - a) Polarkoordinaten: $x = r \cos \phi$, $y = r \sin \phi$
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