**Analysis I/II – Aufgabensammlung**

**(aus alten Basis-Prüfungen)**

ETH Zürich

Berücksichtige Prüfungen:

HS15 / HS14 / FS14 i / FS14 ii / FS13 / HS12

Induktion 3

Komplexe Zahlen - Umrechnung 3

Grenzwert Bestimmung 3

Supremum / Infimum und Maximum / Minimum 4

Umkehrsatz 5

Konvergenz (mit teilweise Grenzwert Bestimmung) / Grenzfunktionen 5

Stetigkeit 6

Potenzreihen 7

Existenz einer Lösung (wahrscheinlich Piccard-Lindelöf) und Taylor-Polynom 8

Taylor-Polynom 8

Differential-Gleichungen 8

Differenzieren 9

Integrale 10

Normale Berechnung (mit üblichen Methoden): 10

Wegintegrale 11

Integrale über Gebiete: 13

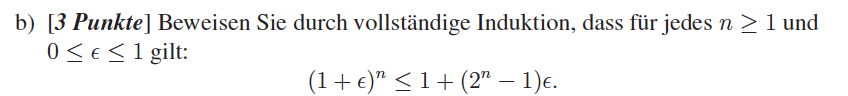
Fläche von Gebieten: 14

Oberflächenintegrale 16

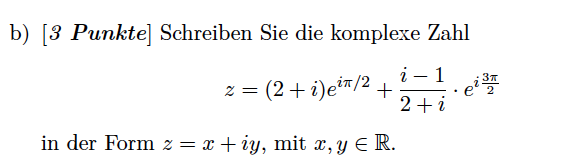
Kritische Punkte / Extremalpunkte 16

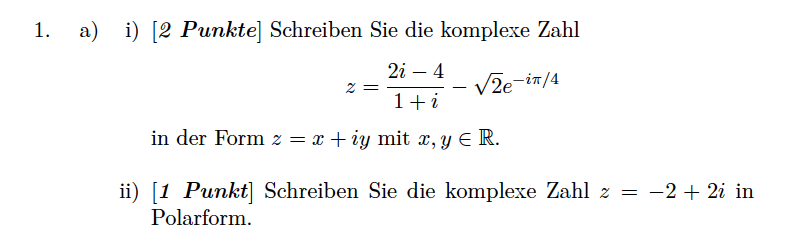
Kurvendiskussion 18

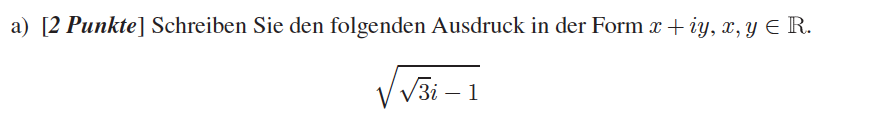
## Induktion

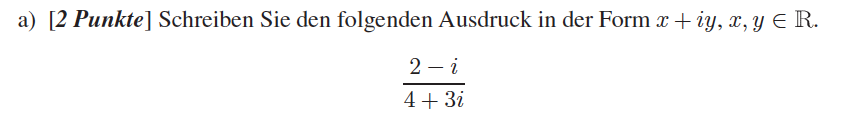
 (FS 13)

## Komplexe Zahlen - Umrechnung

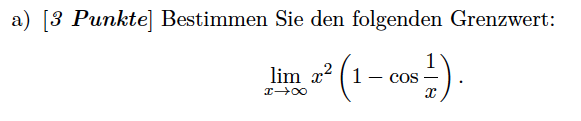
 (HS 15)

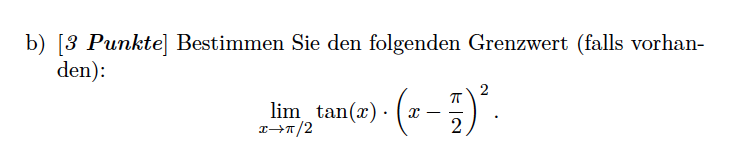
 (HS14)

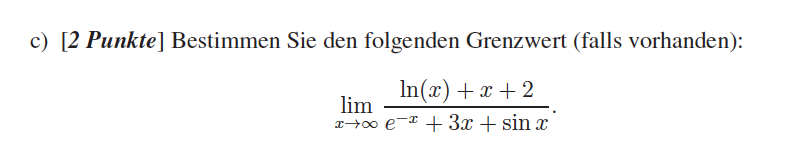
 (FS 14 i)

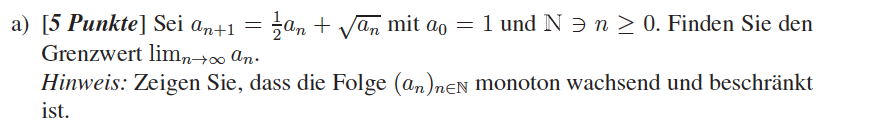
 (FS 13)

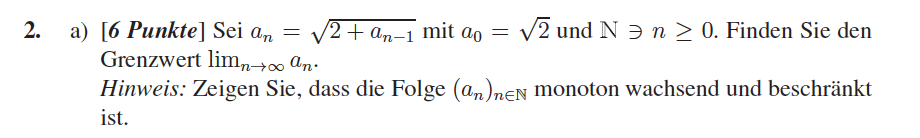
## Grenzwert Bestimmung

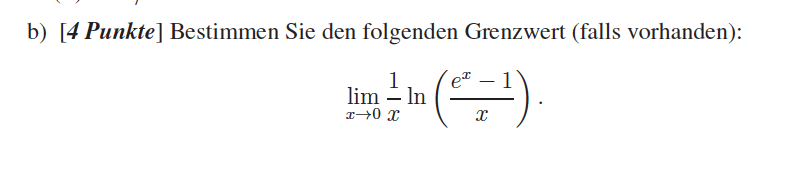
 (HS 15)

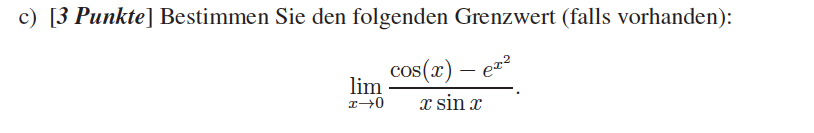
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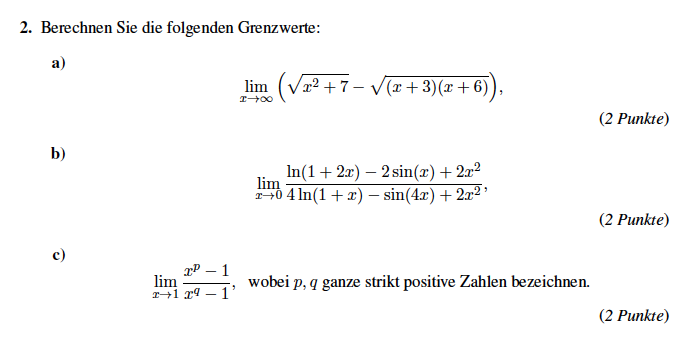
 (FS 14 i)

 (FS 14 i)

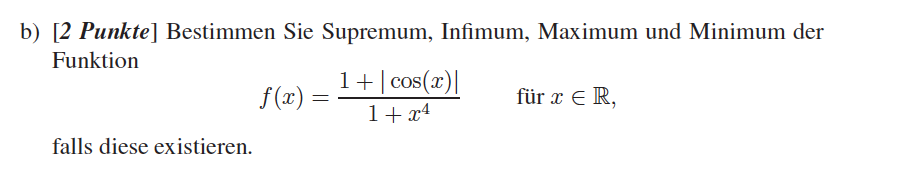
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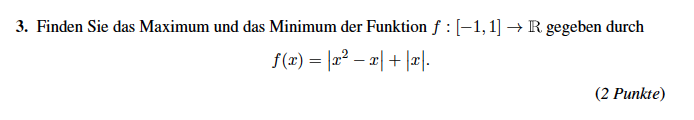
 (FS 14 ii)

 (FS 13)

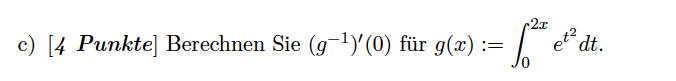
 (HS 12)

## Supremum / Infimum und Maximum / Minimum

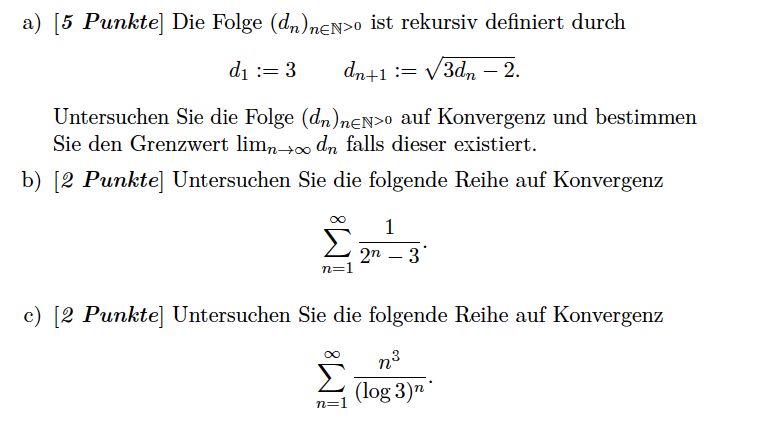
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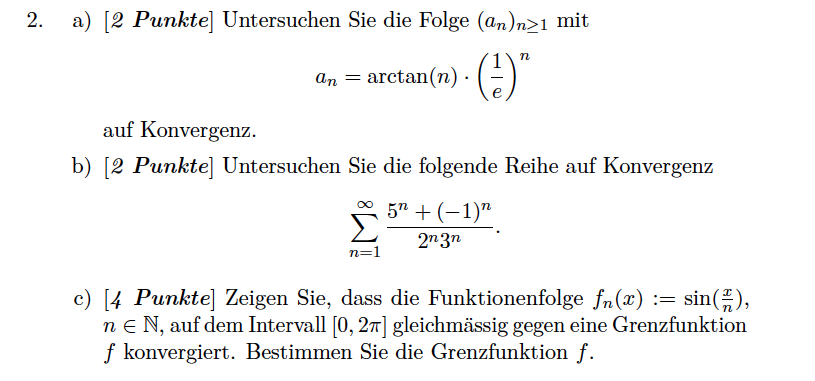
 (HS 12)

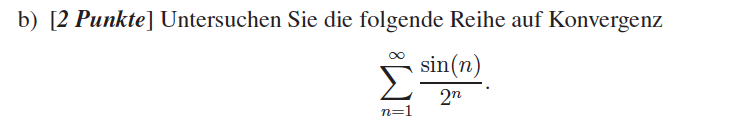
## Umkehrsatz

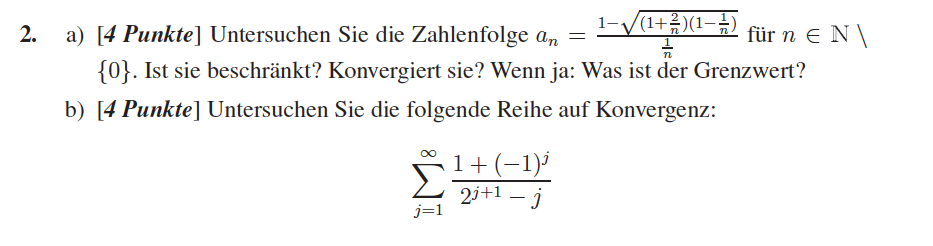
 (HS 14)

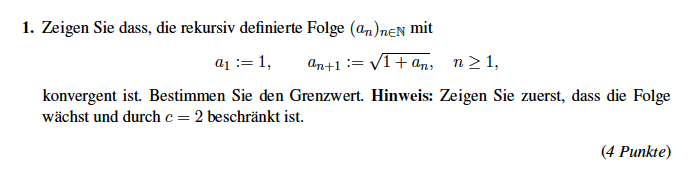
## Konvergenz (mit teilweise Grenzwert Bestimmung) / Grenzfunktionen

 (HS 15)

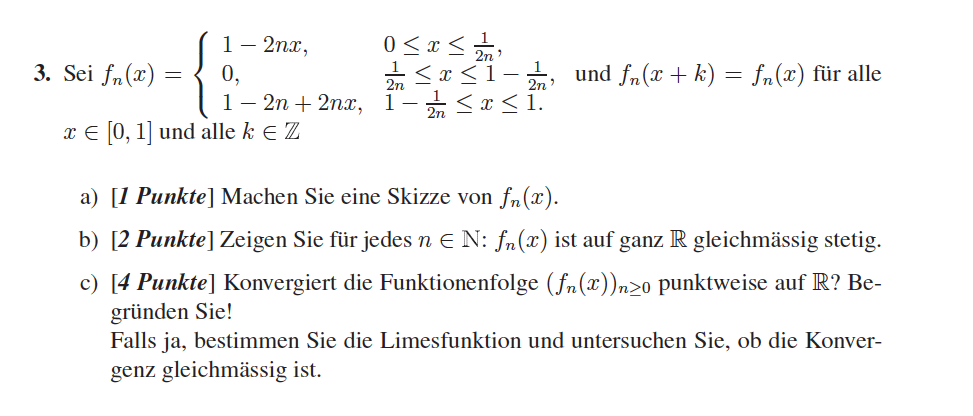
 (HS 14)

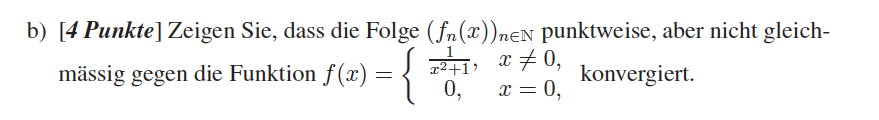
 (FS 14 ii)

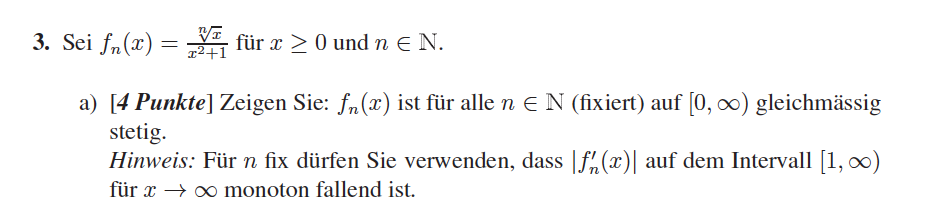
 (FS 13)

 (HS 12)

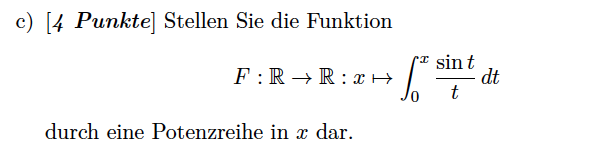
## Stetigkeit

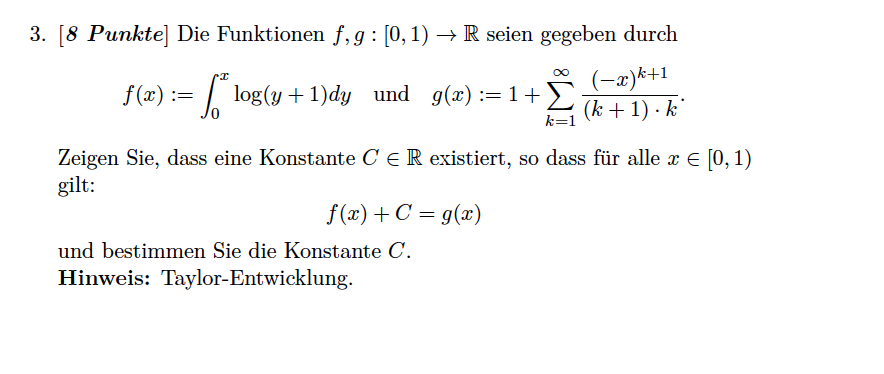
 (FS 14 i)

 (FS 13)

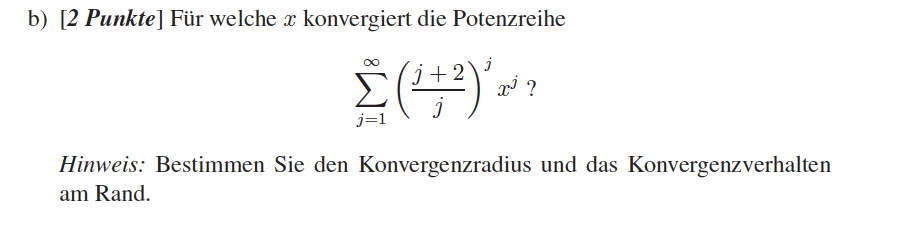
 (FS 13)

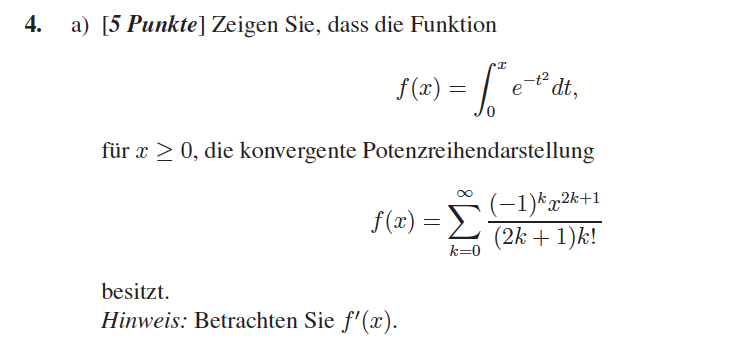
## Potenzreihen

 (HS 15)

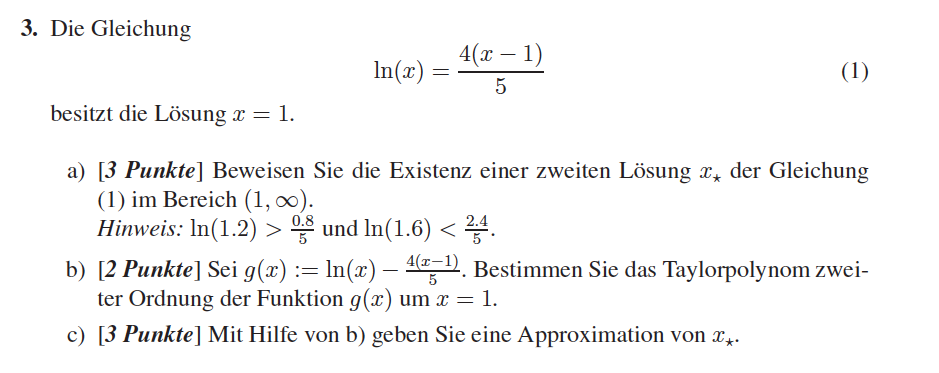
 (HS 14)

**(Nicht sicher ob es wirklich eine Potenzreihen Aufgabe ist)**

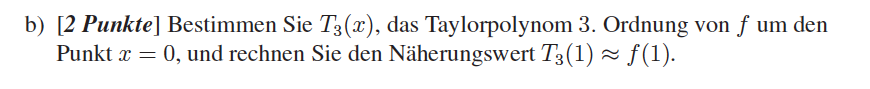
**** (FS 14 i)

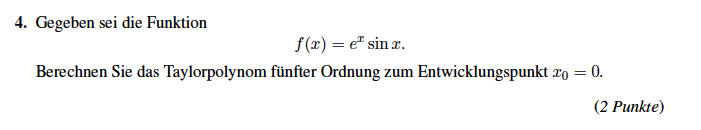
**** (FS 13)

## Existenz einer Lösung (wahrscheinlich Piccard-Lindelöf) und Taylor-Polynom

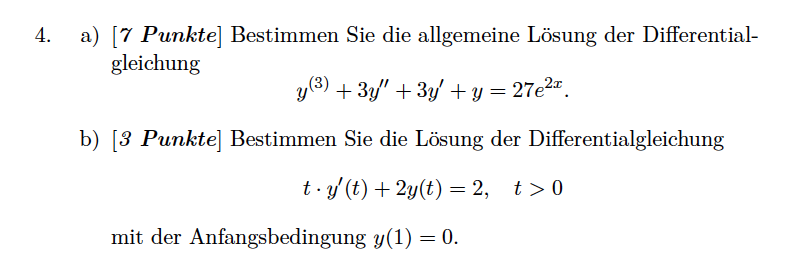
 (FS 14 ii)

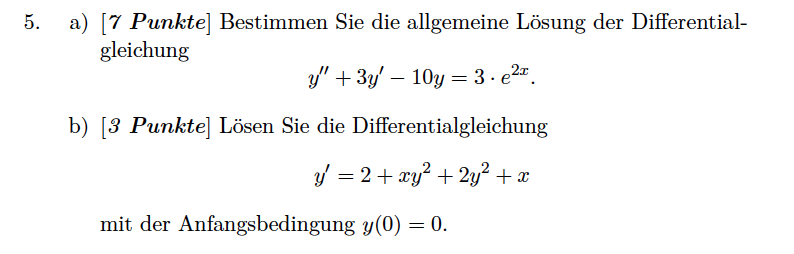
## Taylor-Polynom

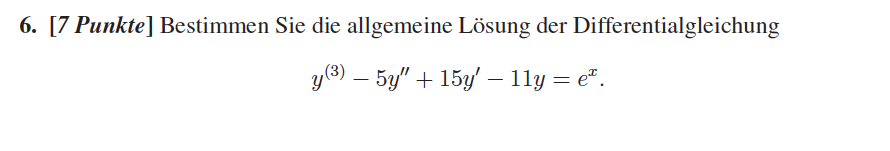
 (FS 13)

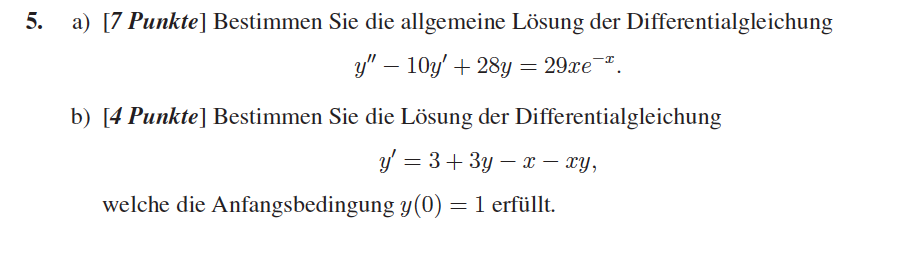
 (HS 12)

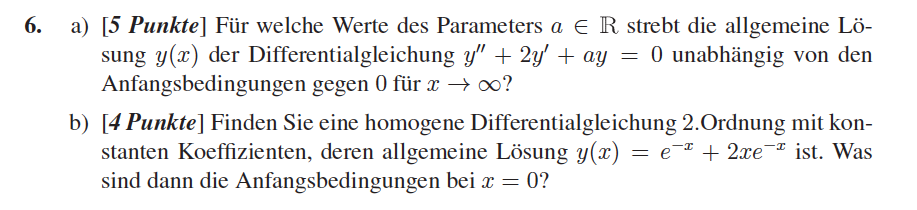
## Differential-Gleichungen

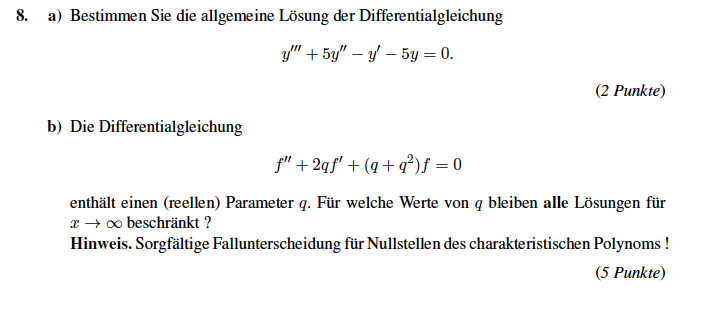
 (HS 15)

 (HS 14)

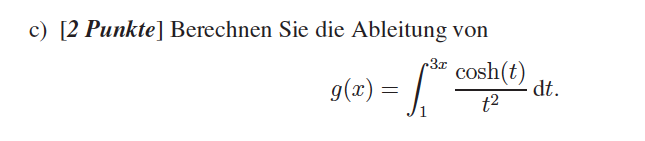
 (FS 14 i)

(FS 14 ii)

 (FS 13)

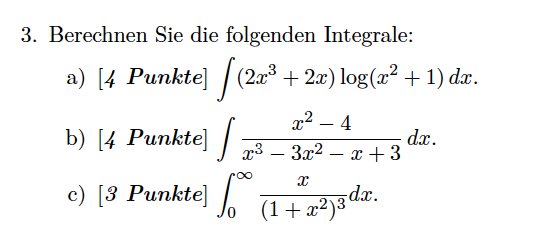
 (HS 12)

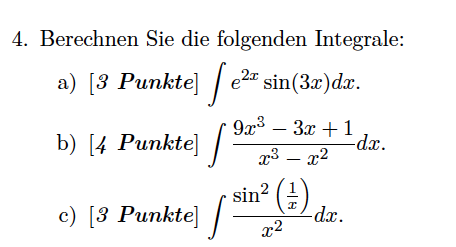
## Differenzieren

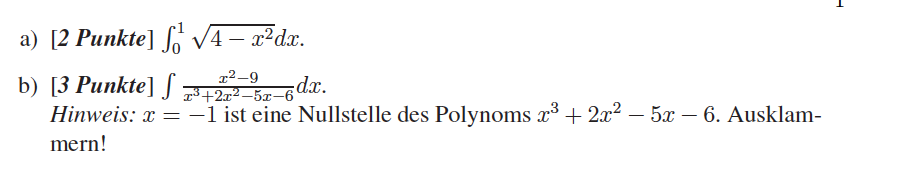
 (FS 14 ii)

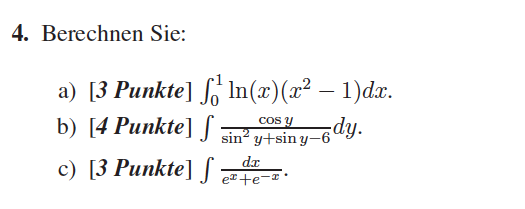
## Integrale

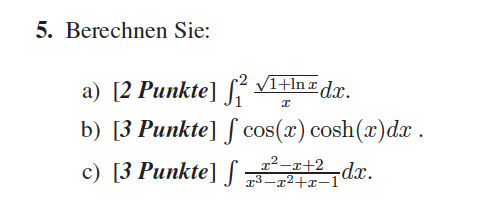
### Normale Berechnung (mit üblichen Methoden):

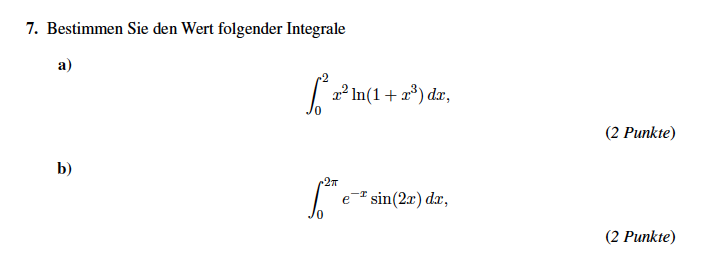
 (HS 15)

 (HS 14)

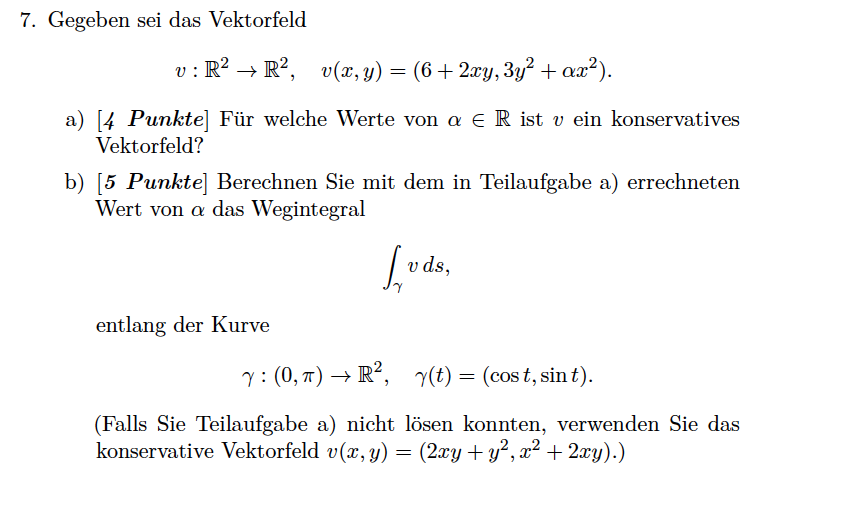
 (FS 14 i)

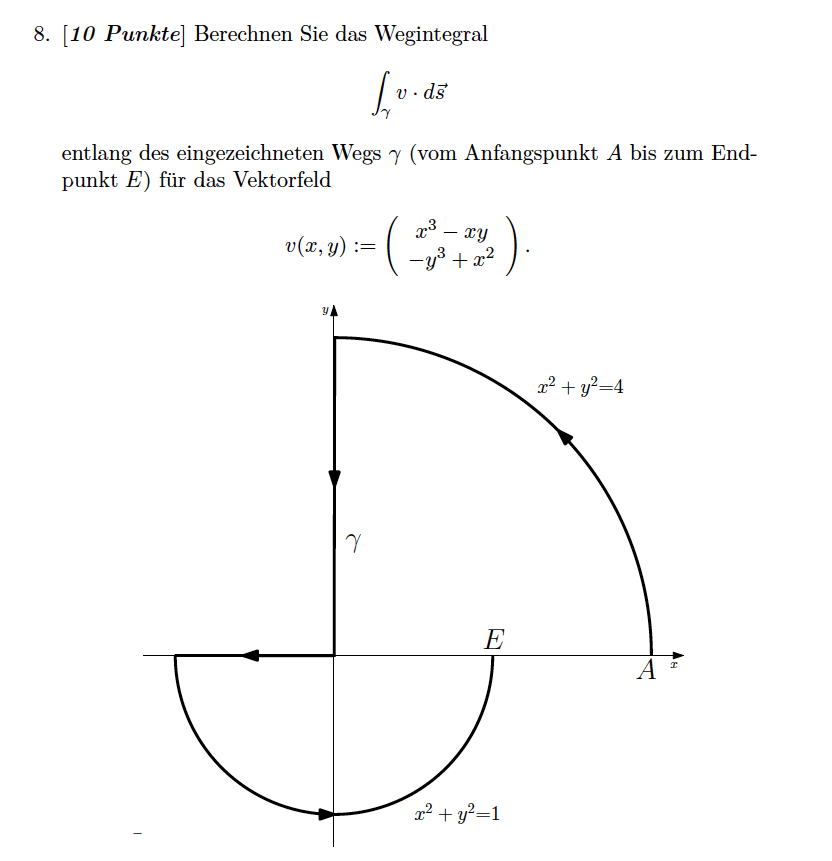
 (FS 14 ii)

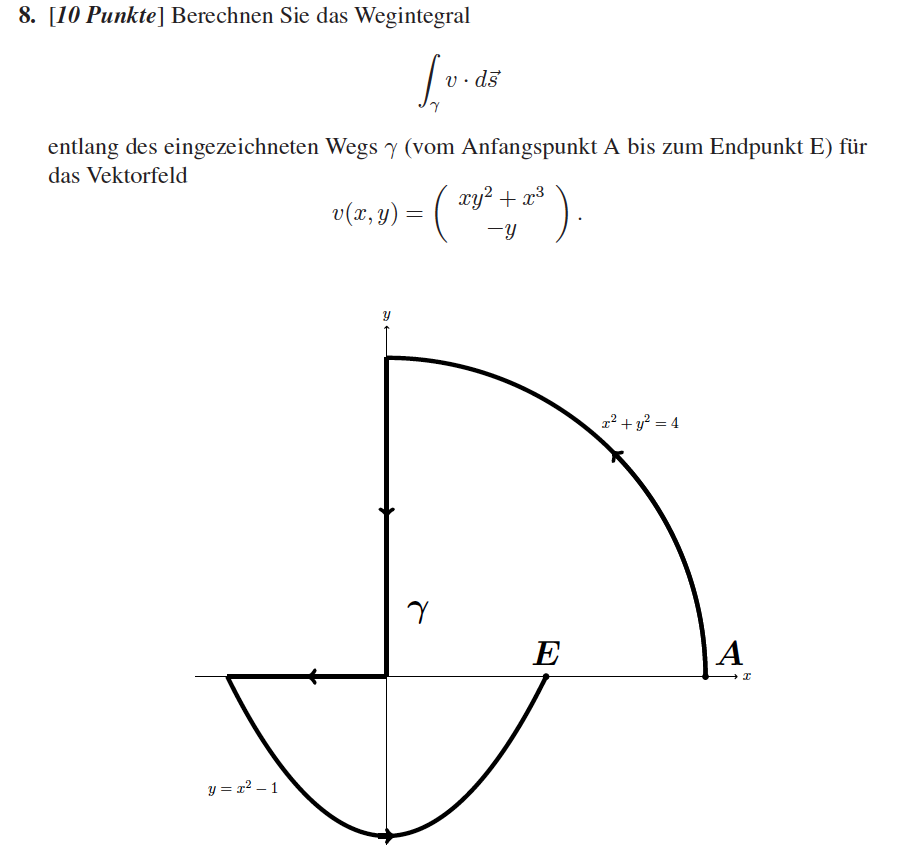
 (FS 13)

 (HS 12)

### Wegintegrale

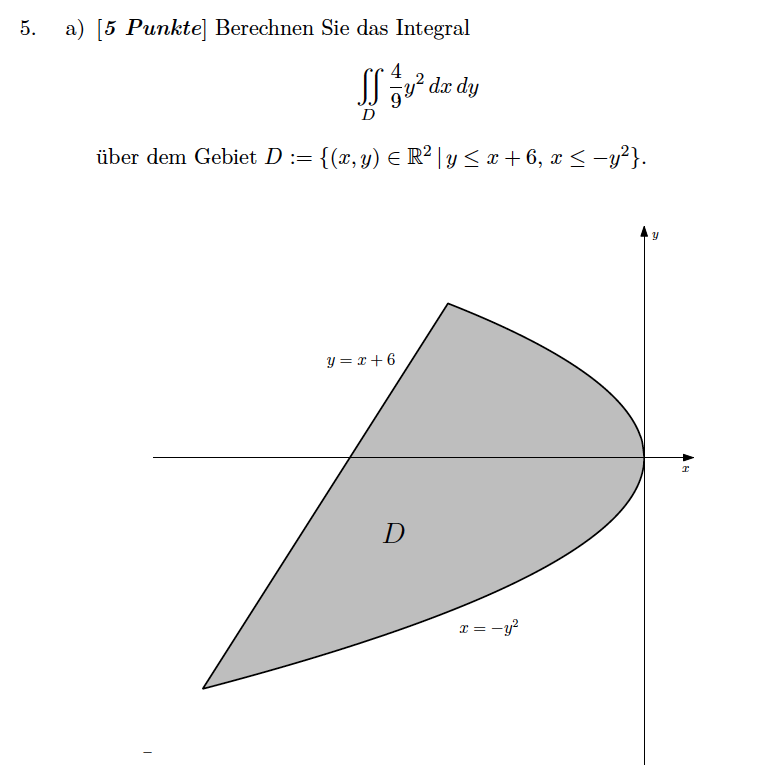
 (HS 15)

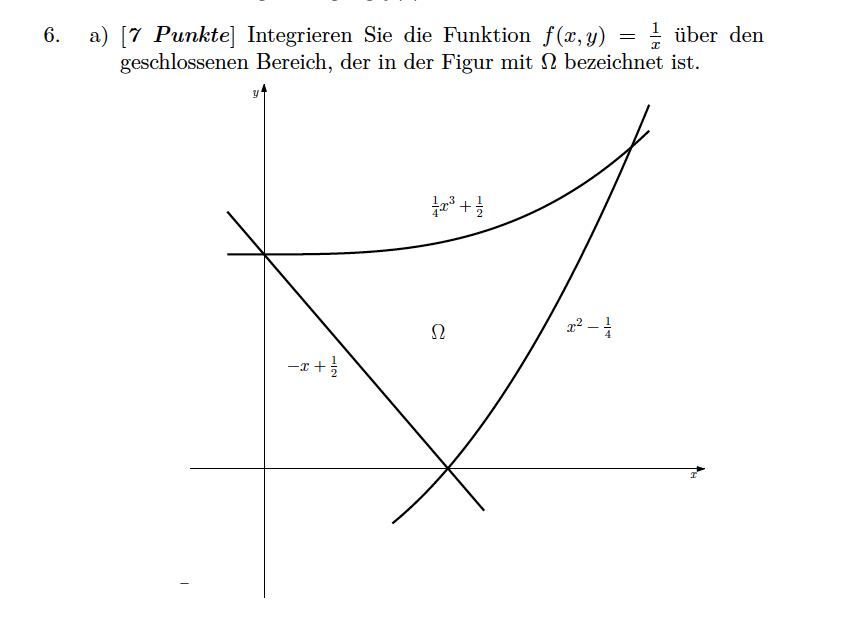
 (HS 14)

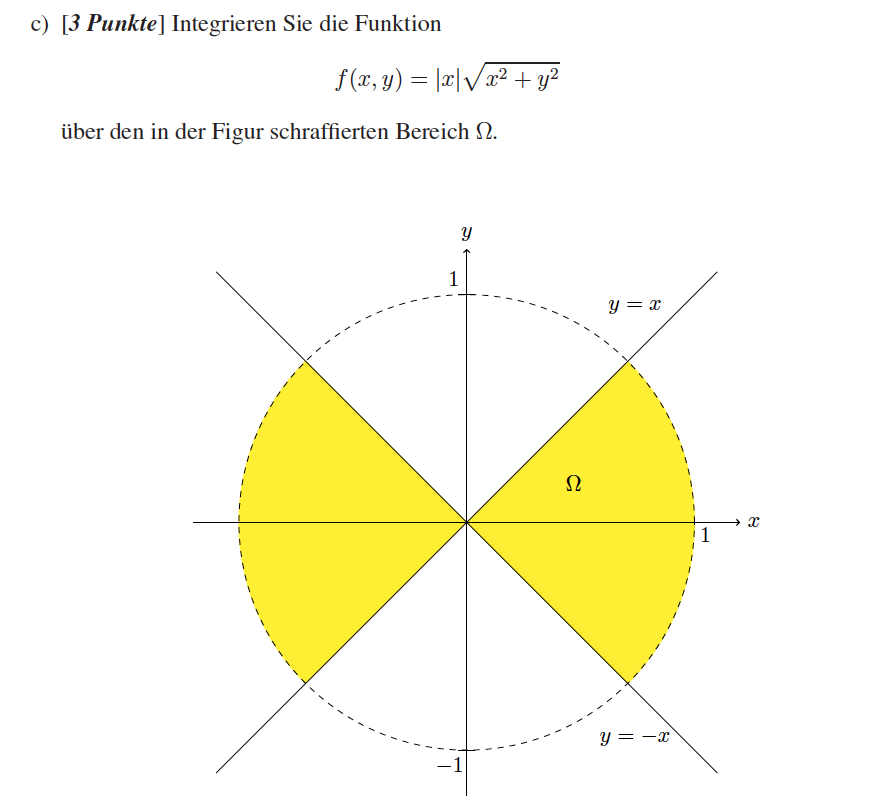
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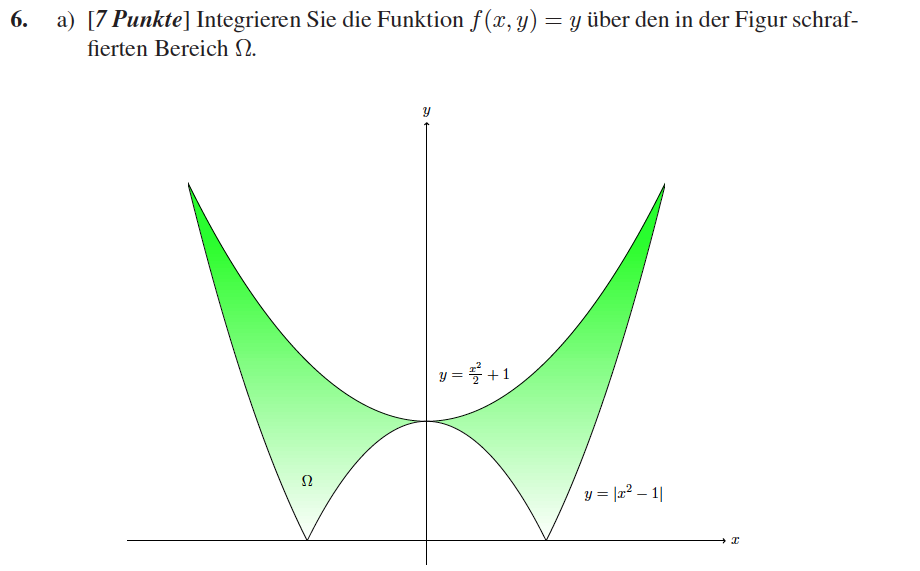
(unterscheidt sich nur im Vektorfeld von der oberen Aufgabe)

### Integrale über Gebiete:

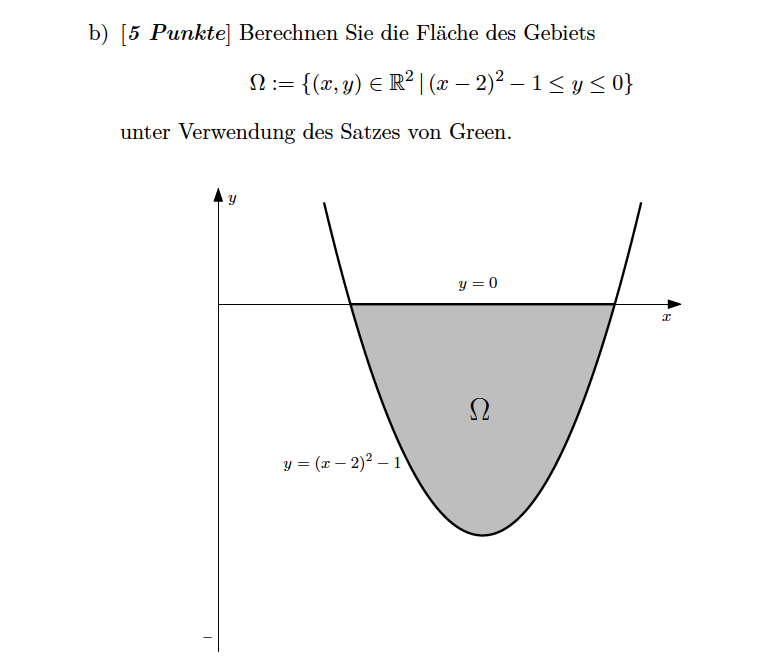
 (HS 15)

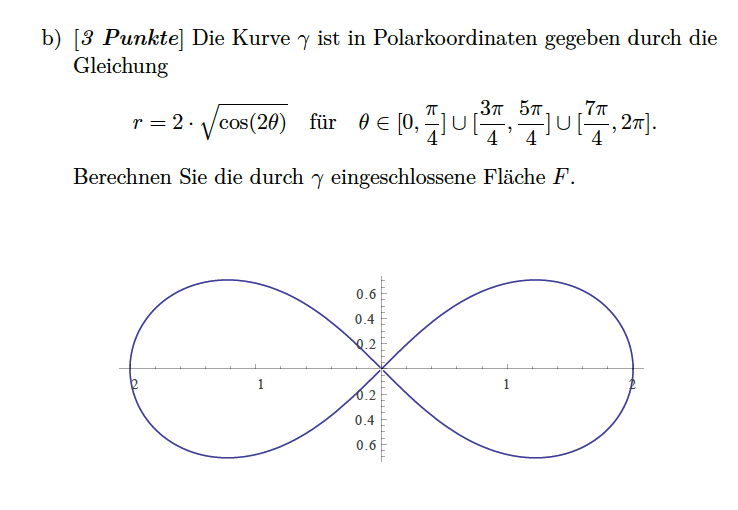
 (HS 14)

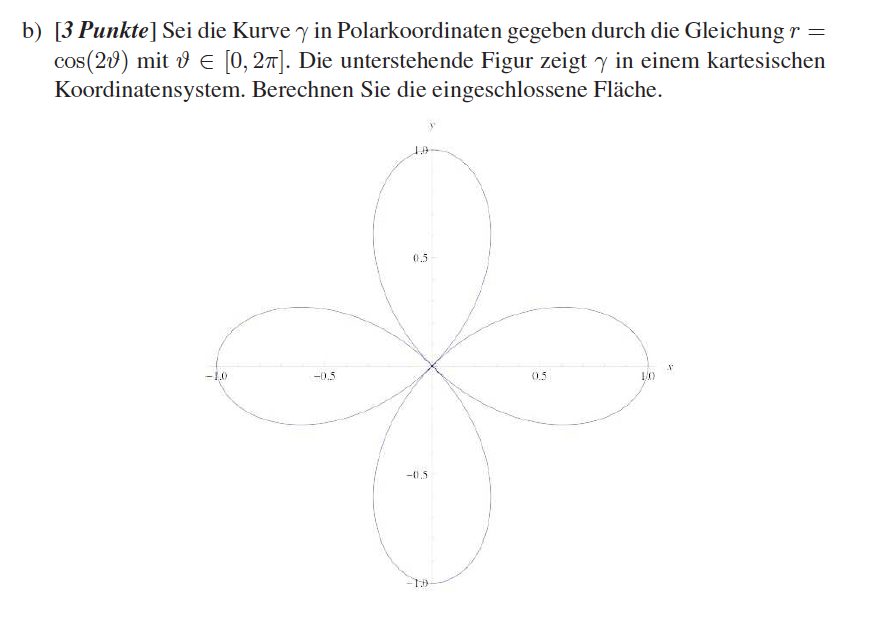
 (FS 14 i)

 (FS 14 ii)

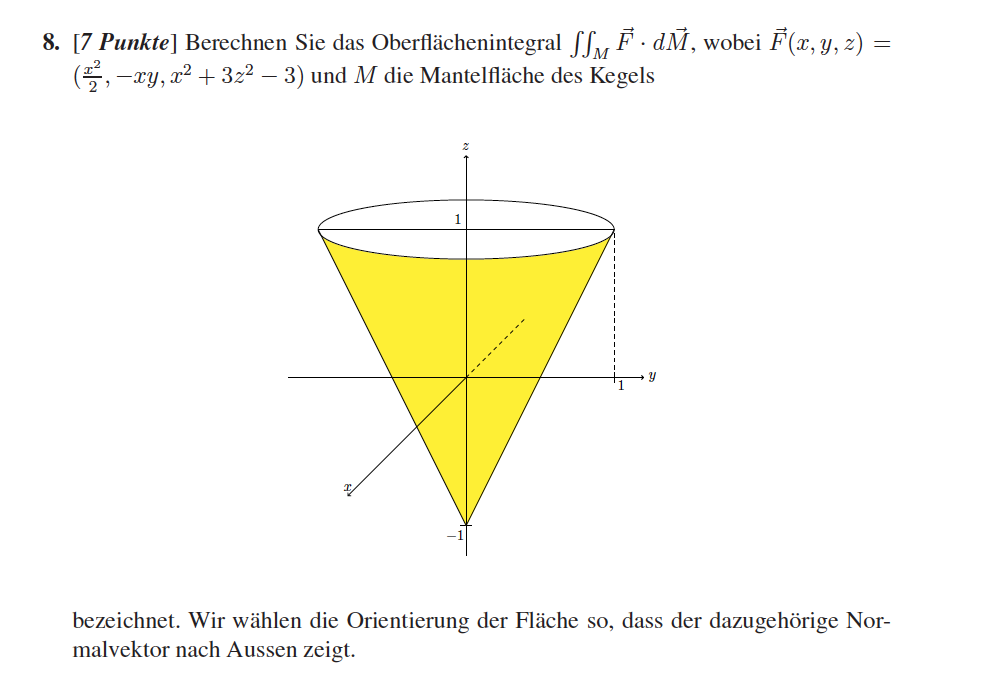
### Fläche von Gebieten:

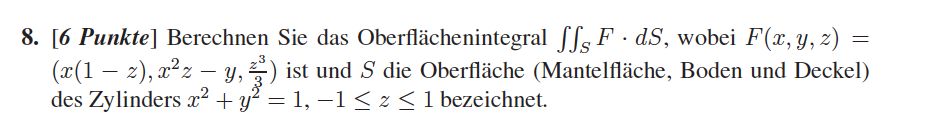
 (HS 15)

 (HS 14)

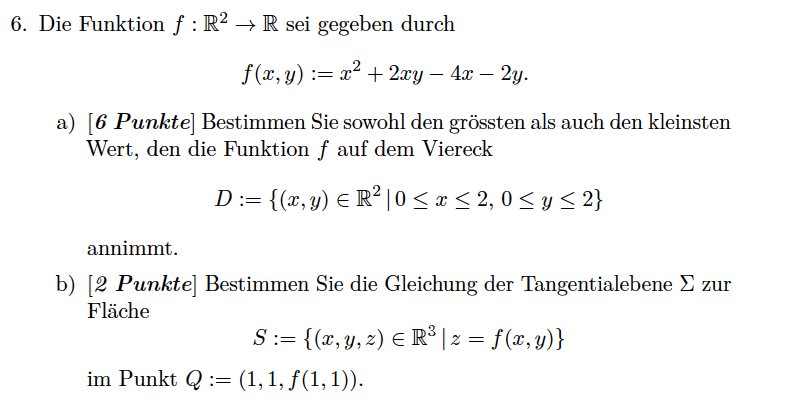
 (FS 14 ii)

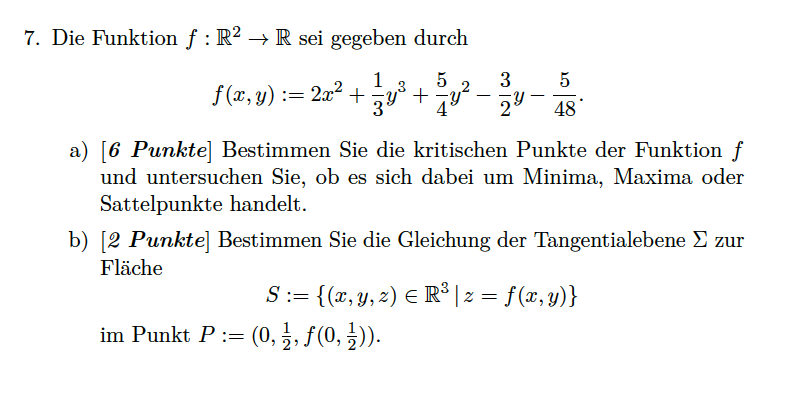
### Oberflächenintegrale

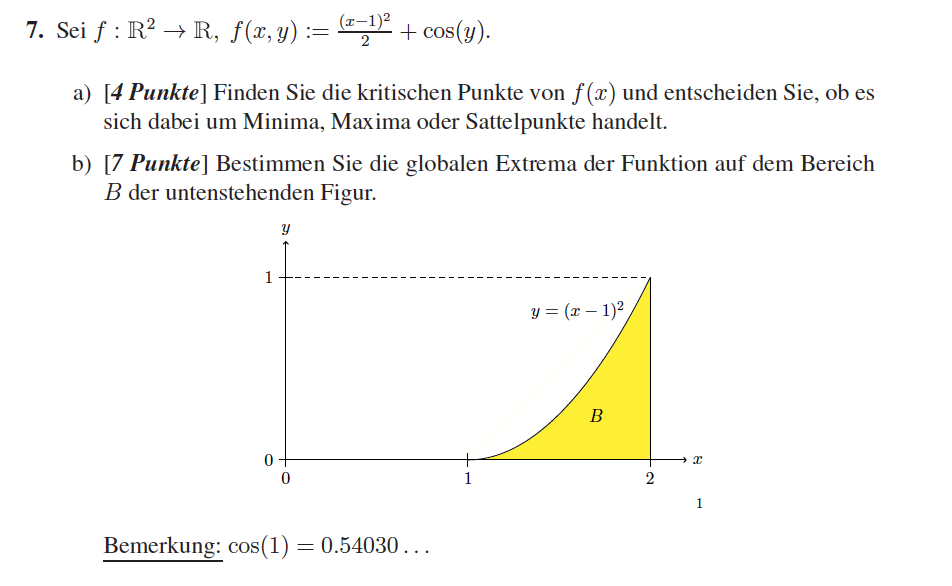
 (FS 14 i)

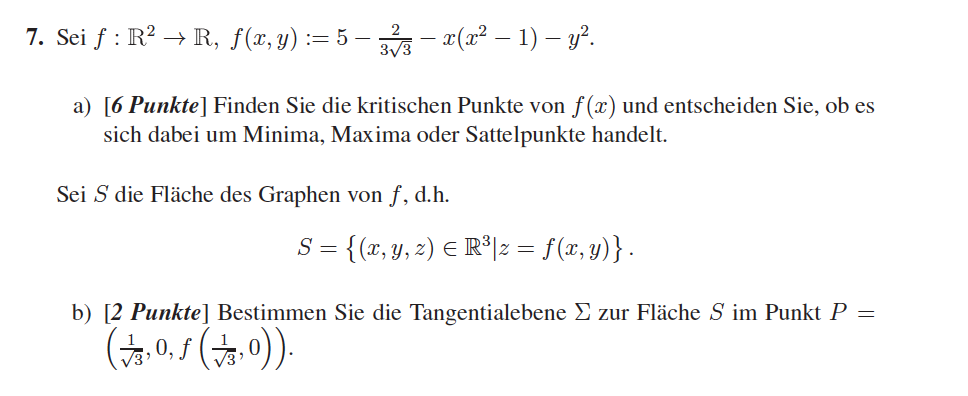
 (FS 13)

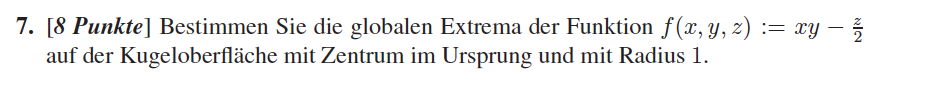
## Kritische Punkte / Extremalpunkte

 (HS 15)

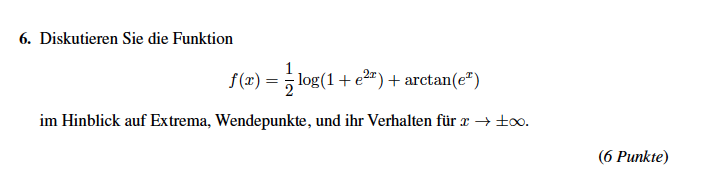
 (HS14)

(FS 14 i)

 (FS 14 ii)

 (FS 13)

## Kurvendiskussion

 (HS 12)