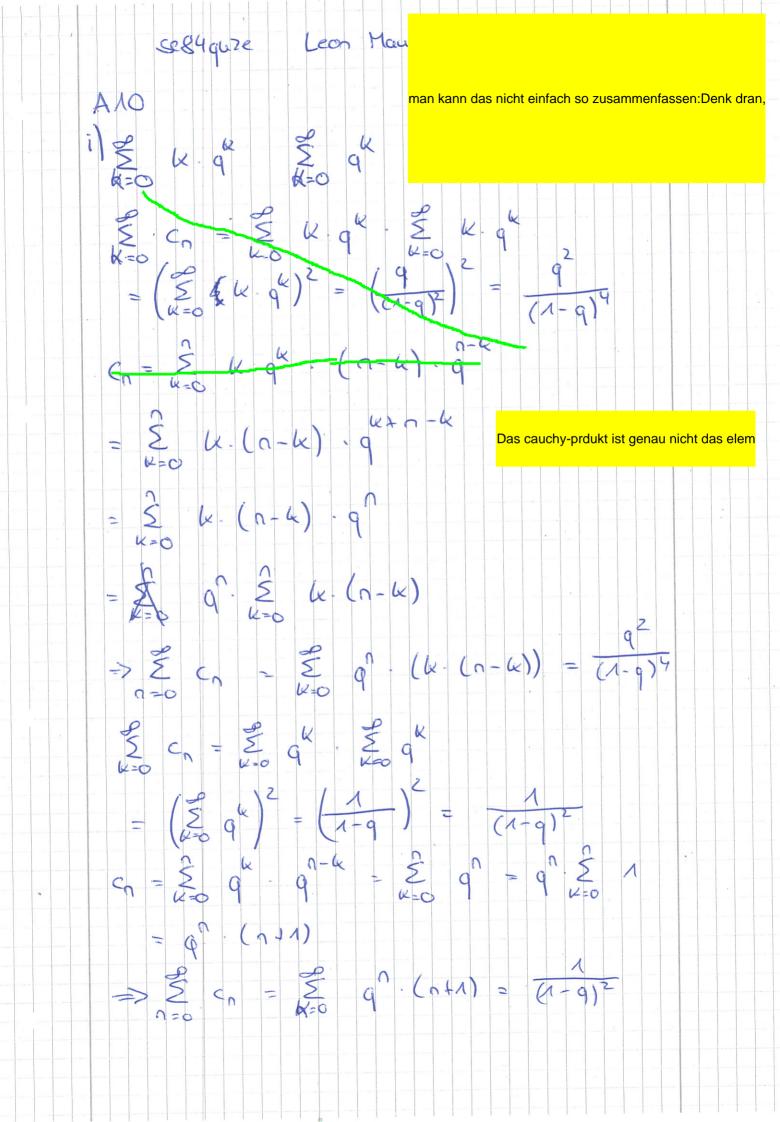
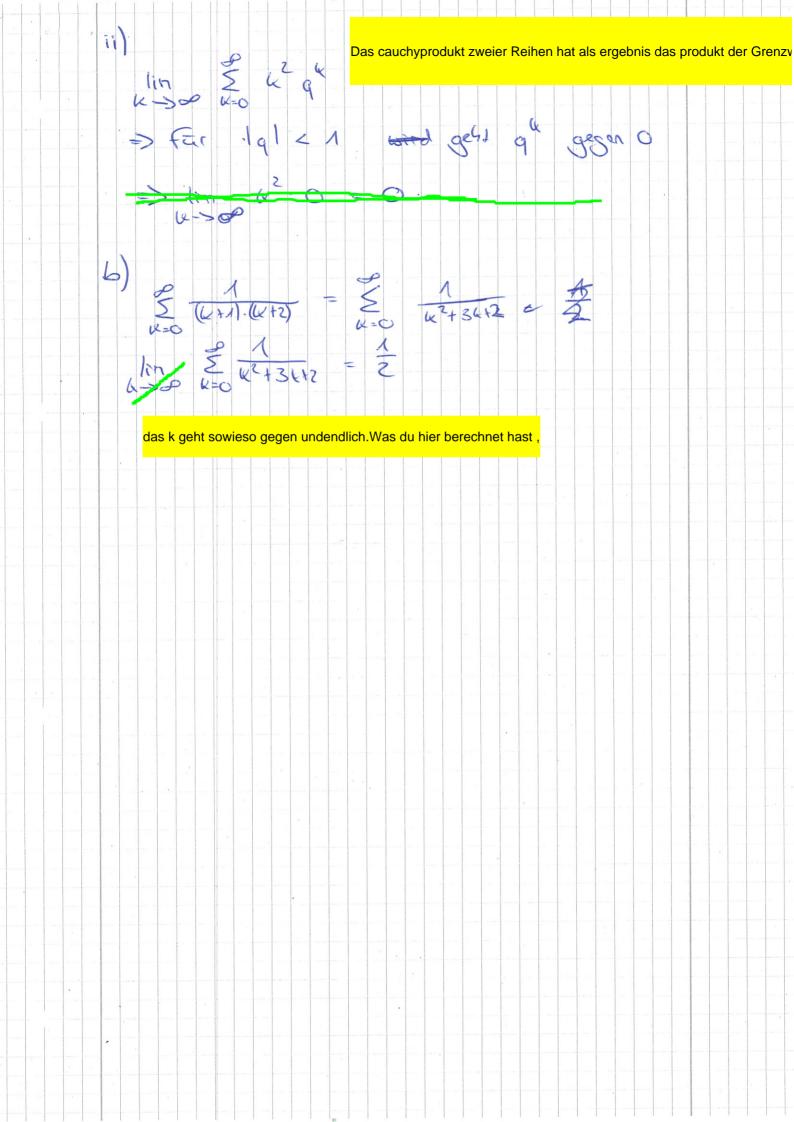
Deckblatt für die Abgabe der Übungsaufgaben IngMathC2

Name, Vorname:	Mayer	leon	

Die folgenden Aufgaben gebe ich zur Korrektur frei:

0/10 *30 = 0





```
A12
  cox(3x) = Re[cox(3x) + i sin(3x)]
 = Re[cos (x) + i sin(x) cos(x) - sin(x) (cos(x) +
   1-5m(x))]-
 = Re[co3(x) + ; sn(x) - cos(x) sin2(x)
   1 cos (x) - i sin (x) - 2 sin (x) cos (x) - isin(x)
    cos (x) - cos (1 - cos (x) - 2 (1 + cos (x)) cos (x)
   (cos (x) - 3 cos (x) (1-cos (x))
  = \cos^3(x) - 3\cos(x) + 3\cos(x)
  = 4003(x)-300(x)
  sin(3x) = Re[sin(3x +: cos(3x)]
 = Re [sin (x) + i cos(x) sin(x) + cos (x). (sin(x)
   + i · coc(x))]
 = Re[sin(x) + cos(x) · sin(x) - sin(x) · cos2(x)
  7 5:12 (x). 1 cos(x) - 2. cos (x) sin(x)-i. (cos(x))
    Sin (x) - Sin (x) + 2 (1 - sin (x)) sin (x)
  = sin3(x) - 3 sin2(x) (1-sin2(x))
  = - (x) + 3 sn(x)
```

Leon Maries

Se 84 guze

Selfque len Kover

ii)

$$sin(3x) = sin(2x + x) = sin(2x) cos(x)$$
 $+ cos(2x) sin(x)$
 $= 2 sin(x) cos'(x) + (1 - sin^2(x)) sin(x) - sin^3(x)$
 $= 2 sin(x) - 2 sin's(x) + sn(x) - sin'(x)$
 $= cos(3x) = cos(2x + x) = cos(2x) cos(x)$
 $= cos(3x) = cos(2x + x) = cos(2x) cos(x)$
 $= cos(3x) = cos(2x + x) = cos(2x) cos(x)$
 $= cos(3x) = cos(2x + x) = cos(3x) cos(x)$
 $= cos(3x) = cos(3x) - 2 sin(3x) cos(x)$
 $= cos(3x) - 2 sin(3x)$
 $= cos(3x) - 2 sin(3x)$
 $= cos(3x) - 2 cos(3x)$
 $= cos(3x) - 2$