

dougsweetser ~ <u>Help</u>

Progress <u>Dates</u> **Discussion** <u>Wiki</u> Course

☆ Course / 4. Multivalued functions and regular branches. / Exercises

Previous								Next >
----------	--	--	--	--	--	--	--	--------

Problem 4.9

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Problem 4.9

0.0/2.0 points (ungraded) Consider the function

$$f(z) = z^a (z-1)^b.$$

How many branch points $N\left(a,b
ight)$ (including those which may reside at $z=\infty$) does it have depending on the values of $a,\ b$?

$$N\left(1,1
ight) =% {\displaystyle\int\limits_{0}^{\infty }} \left[{\int\limits_{0}^{\infty }} \left[{\int\limits_{0}^{\infty$$

$$N\left(1,1/2
ight) =% {\displaystyle\int\limits_{0}^{\infty }} {\int\limits_{0}^{\infty }} {\int\limits_{0}^$$

$$N\left(1/2,1/3
ight) =% {\displaystyle\int\limits_{0}^{\infty }} {\int\limits_{0}^{\infty }} {\int\limits_{0$$

$$N\left(2/3,1/3
ight) =% {\displaystyle\int\limits_{0}^{\infty }} {\int\limits_{0}^{\infty }} {\int\limits_{0$$

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< Previous Next >

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