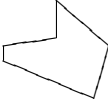





MA30056: Complex Analysis

SELF-ASSESSMENT SHEET 6: HOMOTOPY VERSION OF CAUCHY'S THEOREM AND CAUCHY FORMULAE

- 1.) Decide which of the following regions are star-domains.
Click on "Evaluate" after you have ticked the domains which are star-domains.

				
star-domain?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Evaluate

- 2.) Is the empty set \emptyset a star-domain?
For the solution, click on the following line:

- 3.) Evaluate $\int_{|z-1|=1} \frac{z^2}{z-1} dz$.
For the solution, click on the following line:

- 4.) Evaluate $\int_{|z|=2} \frac{e^z}{z^2} dz$.
For the solution, click on the following space:

- 5.) Given any domain D , why is there no function F such that $F'(z) = |z|$ for $z \in D$?
For the solution, click on the following space:
