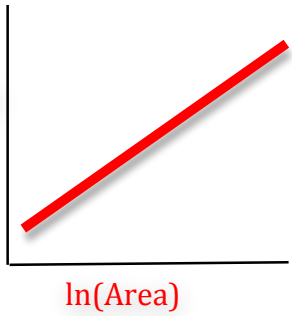
Quiz 3 Name _____

1) In the equilibrium model of island biogeography, what factor(s) influence the overall rates of immigration? Use an **arrow** → to point the appropriate answer(s). And the rates of extinction? **Underline** the appropriate answer(s).
   a. Productivity on the island
   b. Distance of the island from the mainland
   c. Size of the island
   d. Size of the mainland
   e. How many samples you collect

2) Draw on the axes to the right how log(Species richness) relates to log(Area) if the Arrhenius relationship holds ($S = cA^z$). Be sure to label your axes. (2pts)



3) Provide a short (1 sentence), clear example of a vicariance event for humans, either historical or a plausible scenario. (2pts)

Disappearance of the Bering land bridge, flooding of the Black Sea (hypothesized), or any geologic change that divided an area and prevented people from mixing.

___ / 5pts

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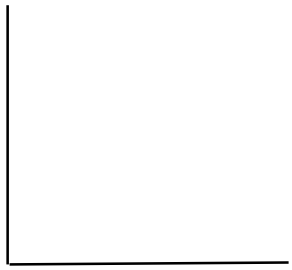

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