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| **GE 2318 Homework #8 2024**  **Name: Student ID:**  **Q1:** Consider the following functions:  (a) (b)  (c) (d)    Show which function is:    Convergent: \_\_( d )\_\_  Divergent: \_\_( b )\_\_  Periodic: \_\_( a )\_\_  Chaotic: \_\_( c )\_\_  **Q2:** Chaotic stirring liquids is efficient due to the \_\_\_ mixing \_\_\_ property of chaos  Chaotic spreading data is efficient due to the \_\_\_ diffusion and confusion \_\_\_ property of chaos  **Q3:** Astronomers consider the universe to be a chaotic system, because they believe:  \_\_\_\_ The motions of all planets are not convergent, not divergent and not exactly periodic. |