**Feedback Loops**

**More More**

**Births Population**

+

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Directions:***Draw the graph****(with general axsis lables) and describe/draw the feedback loop.*

**Exponential Growth: Positive Feedback Loops**

|  |  |  |
| --- | --- | --- |
| **Describe the interaction** | **Sketch the Graph** | **Draw the Feedback loop** |
| **1) A Shouting Match:** Shouting + Anger  *Shouting leads to anger, which leads to more shouting* | Amount of Shouting  Time | **More More**  **Shouting Anger**  +  + |
| **3) Exponential Growth:** Rabbits + Births | Rabbit Population  Time |  |
| **4) Albedo Effect:**  Snow Melt + Ocean Surface Temperature | Time |  |
| **5) Epidemic:** Number Infected + New Infections | Time |  |

**Resources Population**

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**Negative Feedback Loops**

|  |  |  |
| --- | --- | --- |
| **1) Body Temperature:** Desired Body Temperature + Heat Production by Body | Time  Body Temp |  |
| **2) Population Density:** plants + sunlight | Amount of Plants  Time |  |
| **3) Population Stability:**  number of lynx + number of hares | Amount of Hares  Time |  |
| **4) Atmospheric temperature:** temperature and windblown dust | Time |  |

**(complete the following statement)**

Based on the examples of negative feedback above, it seems like the purpose of a negative feedback mechanism is to