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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. In the autonomous differential equation , the critical point  Select the correct answer.  ​   |  |  |  | | --- | --- | --- | |  | a. | is an attractor | |  | b. | is semistable | |  | c. | is an attractor | |  | d. | is a repeller | |  | e. | is semistable |  |  |  | | --- | --- | | *ANSWER:* | c | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2. The differential equation is  Select the correct answer.  ​   |  |  |  | | --- | --- | --- | |  | a. | linear | |  | b. | homogeneous | |  | c. | separable | |  | d. | exact | |  | e. | Bernoulli |  |  |  | | --- | --- | | *ANSWER:* | b | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3. In the autonomous differential equation , the critical point  Select the correct answer.  ​   |  |  |  | | --- | --- | --- | |  | a. | is an attractor | |  | b. | is a repeller | |  | c. | is an attractor | |  | d. | is a repeller | |  | e. | is semistable |  |  |  | | --- | --- | | *ANSWER:* | c | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. The differential equation is  Select the correct answer.  ​   |  |  |  | | --- | --- | --- | |  | a. | linear | |  | b. | homogeneous | |  | c. | separable | |  | d. | exact | |  | e. | Bernoulli |  |  |  | | --- | --- | | *ANSWER:* | e | |