

## Section 1.2 - Initial-Value Problems

1. The solution of the initial value problem  $y' = 3y, y(0) = 2$  is  $y = ce^{3x}$ , where  $c =$   
(Select the correct answer.)

- a. 2
- b. -2
- c. 3
- d. -3
- e. 1

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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2. The solution of the initial value problem  $y' = 2y + x, y(1) = \frac{1}{4}$  is  $y = -\frac{x}{2} - \frac{1}{4} + ce^{2x}$ , where  $c =$   
Select the correct answer.

- a. 2
- b.  $e^{-2}$
- c.  $e^{-1}$
- d.  $\frac{e^{-2}}{2}$
- e. 1

ANSWER: b  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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3. The initial value problem  $y' = \sqrt{y^2 - 9}, y(x_0) = y_0$  has a unique solution guaranteed by Theorem 1.1 if  
Select the correct answer.

- a.  $y_0 = 3$
- b.  $y_0 = -3$
- c.  $y_0 = 5$
- d.  $y_0 = 0$

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e.  $y_0 = 1$

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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4. The solution of the initial value problem  $y' = 5y, y(1) = 3$  is  $y = ce^{5x}$ , where  $c =$   
(Select the correct answer.)

- a.  $3e^{-5}$
- b. 3
- c.  $3e^5$
- d.  $-3e^5$
- e. -3

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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5. The solution of the initial value problem  $y' = 2y + x, y(-1) = \frac{1}{2}$  is  $y = -\frac{x}{2} - \frac{1}{4} + ce^{2x}$ , where  $c =$   
(Select the correct answer.)

- a. 2
- b.  $\frac{e^2}{4}$
- c.  $e^2$
- d.  $\frac{e^2}{2}$
- e. 1

ANSWER: b  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False

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6. The initial value problem  $y' = \sqrt{y^2 - 16}$ ,  $y(x_0) = y_0$  has a unique solution guaranteed by Theorem 1.1 if

Select the correct answer.

a.  $y_0 = 4$

b.  $y_0 = -4$

c.  $y_0 = 0$

d.  $y_0 = 8$

e.  $y_0 = 1$

ANSWER: d

POINTS: 1

QUESTION TYPE: Multi-Mode (Multiple choice)

HAS VARIABLES: False

STUDENT ENTRY MODE: Basic

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## Section 1.1 - Definitions and Terminology

1. The differential equation  $y'' + 2y' + 3y = 0$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: b  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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2. The differential equation  $y'' + 2yy' + 3y = 0$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: e  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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3. The differential equation  $y' + 3y = \sin x$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)

## Section 1.1 - Definitions and Terminology

HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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4. The differential equation  $y'' + 2y' + 3y = \sin y$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: e  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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5. The differential equation  $y''' + 2y'' + 3xy' - 4e^x y = \sin x$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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6. The values of  $m$  for which  $y = e^{mx}$  is a solution of  $y'' - 5y' + 6y = 0$  are  
Select the correct answer.

- a. 2 and 4
- b. -2 and -3
- c. 3 and 4
- d. 2 and 3

## Section 1.1 - Definitions and Terminology

e. 1 and 5

ANSWER: d  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
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7. The values of  $m$  for which  $y = x^m$  is a solution of  $x^2y'' - 5xy' + 8y = 0$  are  
Select the correct answer.

- a. 2 and 4
- b. -2 and -4
- c. 3 and 5
- d. 2 and 3
- e. 1 and 5

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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8. The values of  $c$  for which  $y = c$  is a constant solution of  $y' = y^2 + 3y - 4$  are  
Select the correct answer.

- a. 1 and 4
- b. -2 and -3
- c. 1 and -4
- d. -1 and 3
- e. 1 and 3

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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9. The values of  $m$  for which  $y = e^{mx}$  is a solution of  $y'' - 4y' - 5y = 0$  are  
Select the correct answer.

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- a. 1 and 4
- b. -1 and 4
- c. 2 and 3
- d. -2 and -3
- e. -1 and 5

ANSWER: e  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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10. In the  $LRC$  circuit problem in the text,  $C$  stands for  
Select the correct answer.

- a. capacitance
- b. resistance
- c. current
- d. inductance
- e. charge on the capacitor

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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11. In the  $LRC$  circuit problem in the text, the units of inductance,  $L$ , are  
Select the correct answer.

- a. ohms
- b. farads
- c. amperes
- d. henrys
- e. coulombs

ANSWER: d  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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## Section 1.1 - Definitions and Terminology

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12. In the falling body problem, the units of acceleration might be  
Select the correct answer.

- a. meters per second
- b. feet per second
- c. meters per second per second
- d. kilograms per meter
- e. kilograms per meter per second

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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13. The differential equation  $y'''' + 2y''' + 3y'' + 7y' = 0$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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14. The differential equation  $y'' + 2yy' + 3y = 0$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: e  
POINTS: 1



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QUESTION TYPE: Multi-Mode (Multiple choice)  
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15. The differential equation  $y' + 3y = \sin x$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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16. The differential equation  $y'' + 2y' + 3y = \sin y$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear
- d. first order nonlinear
- e. second order nonlinear

ANSWER: e  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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17. The differential equation  $y''' + 2y'' + 3xy' - 4e^x y = \sin x$  is  
Select the correct answer.

- a. first order linear
- b. second order linear
- c. third order linear

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d. first order nonlinear

e. second order nonlinear

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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18. The values of  $m$  for which  $y = e^{mx}$  is a solution of  $y''' - 9y' + 20y = 0$  are  
Select the correct answer.

a. 4 and -5

b. -4 and -5

c. 3 and 6

d. 4 and 5

e. 3 and 5

ANSWER: d  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
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19. The values of  $m$  for which  $y = x^m$  is a solution of  $x^2y''' - 7xy' + 12y = 0$  are  
Select the correct answer.

a. -3 and 4

b. -2 and -6

c. 3 and 4

d. 2 and 6

e. 3 and -4

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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20. The values of  $c$  for which  $y = c$  is a constant solution of  $y' = y^2 + 5y - 6$  are

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Select the correct answer.

- a. 1 and 6
- b. -1 and 6
- c. 1 and -6
- d. -2 and 3
- e. 2 and 3

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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21. The values of  $m$  for which  $y = e^{mx}$  is a solution of  $y'' - 6y' - 7y = 0$  are  
Select the correct answer.

- a. 1 and 7
- b. -1 and 6
- c. 1 and 6
- d. 1 and -6
- e. -1 and 7

ANSWER: e  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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22. In the **LRC** circuit problem in the text,  $R$  stands for  
Select the correct answer.

- a. capacitance
- b. resistance
- c. current
- d. inductance
- e. charge on the capacitor

ANSWER: b  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic

## Section 1.1 - Definitions and Terminology

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23. In the *LRC* circuit problem in the text, the units for *C*, are  
Select the correct answer.

- a. ohms
- b. farads
- c. amperes
- d. henrys
- e. coulombs

*ANSWER:* b  
*POINTS:* 1  
*QUESTION TYPE:* Multi-Mode (Multiple choice)  
*HAS VARIABLES:* False  
*STUDENT ENTRY MODE:* Basic  
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24. In the falling body problem, the units of acceleration might be  
Select the correct answer.

- a. centimeters per second
- b. feet per second
- c. feet per second per second
- d. kilograms per centimeter
- e. kilograms per centimeter per second

*ANSWER:* c  
*POINTS:* 1  
*QUESTION TYPE:* Multi-Mode (Multiple choice)  
*HAS VARIABLES:* False  
*STUDENT ENTRY MODE:* Basic  
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### Section 1.3 - Differential Equations as Mathematical Models

1. The population of a town increases at a rate proportional to its population. Its initial population is 1000. The correct initial value problem for the population,  $P(t)$ , as a function of time,  $t$ , is Select the correct answer.

a.  $\frac{dP}{dt} = kP, P(0) = 1000$

b.  $\frac{dP}{dt} = kP^2, P(0) = 100$

c.  $\frac{dP}{dt} = kP, P(0) = 100$

d.  $\frac{dP}{dt} = kP(1 - P), P(0) = 100$

e.  $\frac{dP}{dt} = kP^2, P(0) = 1000$

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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2. The temperature of a cup of coffee obeys Newton's law of cooling. The initial temperature of the coffee is  $150^\circ F$  and one minute later, it is  $135^\circ F$ . The ambient temperature of the room is  $70^\circ F$ . If  $T(t)$  represents the temperature of the coffee at time  $t$ , the correct differential equation for the temperature with side conditions is Select the correct answer.

a.  $\frac{dT}{dt} = k(T - 135)$

b.  $\frac{dT}{dt} = k(T - 150)$

c.  $\frac{dT}{dt} = k(T - 70)$

d.  $\frac{dT}{dt} = T(T - 150)$

e.  $\frac{dT}{dt} = T(T - 70)$

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic

### Section 1.3 - Differential Equations as Mathematical Models

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3. In the previous problem, after a long period of time, the temperature of the coffee approaches  
Select the correct answer.

- a.  $120^{\circ}F$
- b.  $100^{\circ}F$
- c.  $70^{\circ}F$
- d.  $65^{\circ}F$
- e.  $0^{\circ}F$

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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4. A large mixing tank initially contains 100 gallons of water in which 30 pounds of salt have been dissolved. Another brine solution is pumped into the tank at the rate of 4 gallons per minute, and the resulting mixture is pumped out at the same rate. The concentration of the incoming brine solution is 2 pounds of salt per gallon. If  $A(t)$  represents the amount of salt in the tank at time  $t$ , the correct differential equation for  $A$  is  
Select the correct answer.

- a.  $\frac{dA}{dt} = 8 - .02A$
- b.  $\frac{dA}{dt} = 8 - .04A$
- c.  $\frac{dA}{dt} = 4 - .04A$
- d.  $\frac{dA}{dt} = 2 - .04A$
- e.  $\frac{dA}{dt} = 4 - .08A$

ANSWER: b  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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### Section 1.3 - Differential Equations as Mathematical Models

5. In the previous problem, over a long period of time, the total amount of salt in the tank will approach  
Select the correct answer.

- a. 30 pounds
- b. 50 pounds
- c. 100 pounds
- d. 200 pounds
- e. 300 pounds

ANSWER: d  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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6. The population of a town increases at a rate proportional to its population. Its initial population is 5000. The correct initial value problem for the population,  $P(t)$ , as a function of time,  $t$ , is  
Select the correct answer.

- a.  $\frac{dP}{dt} = kP, P(0) = 5000$
- b.  $\frac{dP}{dt} = kP^2, P(0) = 500$
- c.  $\frac{dP}{dt} = kP, P(0) = 500$
- d.  $\frac{dP}{dt} = kP(1 - P), P(0) = 5000$
- e.  $\frac{dP}{dt} = kP^2, P(0) = 5000$

ANSWER: a  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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7. The temperature of a cup of coffee obeys Newton's law of cooling. The initial temperature of the coffee is  $140^\circ F$  and one minute later, it is  $125^\circ F$ . The ambient temperature of the room is  $65^\circ F$ . If  $T(t)$  represents the temperature of the coffee at time  $t$ , the correct differential equation for the temperature is  
Select the correct answer.

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a.  $\frac{dT}{dt} = k(T - 125)$

b.  $\frac{dT}{dt} = k(T - 140)$

c.  $\frac{dT}{dt} = k(T - 65)$

d.  $\frac{dT}{dt} = T(T - 140)$

e.  $\frac{dT}{dt} = T(T - 65)$

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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8. In the previous problem, after a long period of time, the temperature of the coffee approaches  
Select the correct answer.

- a.  $125^{\circ}F$
- b.  $100^{\circ}F$
- c.  $65^{\circ}F$
- d.  $50^{\circ}F$
- e.  $0^{\circ}F$

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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9. A large mixing tank initially contains 1000 gallons of water in which 40 pounds of salt have been dissolved. Another brine solution is pumped into the tank at the rate of 5 gallons per minute, and the resulting mixture is pumped out at the same rate. The concentration of the incoming brine solution is 3 pounds of salt per gallon. If  $A(t)$  represents the amount of salt in the tank at time  $t$ , the correct differential equation for  $A$  is  
Select the correct answer.

a.  $\frac{dA}{dt} = 3 - .005A$



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b.  $\frac{dA}{dt} = 5 - .05A$

c.  $\frac{dA}{dt} = 15 - .005A$

d.  $\frac{dA}{dt} = 3 - .05A$

e.  $\frac{dA}{dt} = 15 + .05A$

ANSWER: c  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
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10. In the previous problem, over a long period of time, the total amount of salt in the tank will approach  
Select the correct answer.

- a. 300 pounds
- b. 500 pounds
- c. 1000 pounds
- d. 3000 pounds
- e. 5000 pounds

ANSWER: d  
POINTS: 1  
QUESTION TYPE: Multi-Mode (Multiple choice)  
HAS VARIABLES: False  
STUDENT ENTRY MODE: Basic  
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