

$$y(1) = e \Rightarrow c_1 e + c_2 e = e, y'(1) = 0 \Rightarrow c_1 e + 2c_2 e + e = 0 \Rightarrow c_1 e + 2c_2 e = -e \Rightarrow c_1 + c_2 = 1, c_1 + 2c_2 = -1 \\ \Rightarrow c_1 = 3, c_2 = -2 \Rightarrow y = 3e^x - 2xe^x + x e^x \ln x$$

$$59. x^2 y'' + 2xy' - 2y = x^2, y_1 = x^{-2}, y_2 = x$$

$$\Rightarrow v_1' = \frac{\begin{vmatrix} \frac{0}{x^2} & x \\ \frac{2}{x^3} & 1 \end{vmatrix}}{\begin{vmatrix} x^{-2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{-x^{-5}}{x^{-5}} = -\frac{1}{x^3} \text{ and } v_2' = \frac{\begin{vmatrix} x^{-1} & 0 \\ -x^{-2} & \frac{1}{x} \end{vmatrix}}{\begin{vmatrix} x^{-2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{x^{-1}}{x^{-5}} = \frac{1}{x^4}$$

$$\Rightarrow v_1 = \int -\frac{1}{x^3} dx = -\frac{1}{2}x^{-2} \text{ and } v_2 = \int \frac{1}{x^4} dx = -\frac{1}{3}x^{-3} \Rightarrow y_p = (-\frac{1}{2}x^{-2})(x^{-2}) + (-\frac{1}{3}x^{-3})(x) = -\frac{1}{6}x^2$$

$$60. x^2 y'' + xy' - y = x, y_1 = x^{-1}, y_2 = x$$

$$\Rightarrow v_1' = \frac{\begin{vmatrix} \frac{0}{x^2} & x \\ \frac{1}{x^3} & 1 \end{vmatrix}}{\begin{vmatrix} x^{-1} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{-x^{-1}}{x^{-1}} = -\frac{1}{x} \text{ and } v_2' = \frac{\begin{vmatrix} x^{-1} & 0 \\ -x^{-2} & \frac{1}{x} \end{vmatrix}}{\begin{vmatrix} x^{-1} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{x^{-1}}{x^{-1}} = \frac{1}{x}$$

$$\Rightarrow v_1 = \int -\frac{1}{x} dx = -\ln|x| \text{ and } v_2 = \int \frac{1}{x} dx = \ln|x| \Rightarrow y_p = (-\ln|x|)(x^{-1}) + (\ln|x|)(x) = -\frac{1}{x} + \frac{1}{x} \ln|x|$$

17.3 APPLICATIONS

$$1. mg = 16 \Rightarrow m = \frac{8}{32}; k = 1; \delta = 1 \Rightarrow \frac{16}{32} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + \frac{dy}{dt} + y = 0, y(0) = 2, y'(0) = 2$$

$$2. mg = 8 \text{ lb} \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \delta = 1.5 \Rightarrow \frac{8}{32} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0 \Rightarrow \frac{1}{4} \frac{d^2y}{dt^2} + \frac{3}{8} \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3$$

$$3. 20 = k \cdot \frac{1}{2} \Rightarrow k = 40; w = 25 \text{ lb} \Rightarrow m = \frac{25}{32}; \delta = 0 \Rightarrow \frac{25}{32} \frac{d^2y}{dt^2} + 0 \cdot \frac{dy}{dt} + 40y = 0. \text{ If } w = 25 \text{ lb, it stretches the spring } 25 = 40x \Rightarrow x = \frac{5}{8} \text{ ft} \Rightarrow \text{spring is now stretched } \frac{5}{32} - \frac{1}{8} = -\frac{3}{32} \text{ ft below equilibrium} \Rightarrow y(0) = -\frac{3}{32}; \text{ initial velocity is } v_0 = \frac{80}{320} = \frac{1}{4} \frac{\text{ft}}{\text{sec}} \Rightarrow y'(0) = \frac{1}{4}. \text{ Thus we have } \frac{25}{32} \frac{d^2y}{dt^2} + 40y = 0, y(0) = -\frac{3}{32}, y'(0) = \frac{1}{4}$$

$$4. w = 10 \text{ lb} \Rightarrow m = \frac{10}{32}; 10 = k \cdot \left(\frac{1}{16}\right) \Rightarrow k = 60 \frac{\text{lb}}{\text{ft}}; \delta = \frac{20}{\sqrt{32}} = \frac{5\sqrt{2}}{\sqrt{32}} \Rightarrow \frac{10}{32} \frac{d^2y}{dt^2} + \frac{5\sqrt{2}}{\sqrt{32}} \frac{dy}{dt} + 60y = 0 \\ \Rightarrow \frac{5}{16} \frac{d^2y}{dt^2} + \frac{5}{\sqrt{2}} \frac{dy}{dt} + 60y = 0, y(0) = \frac{1}{4}, y'(0) = 0$$

$$5. E(t) = 20 \cos t; R \frac{dq}{dt} = 4 \frac{dq}{dt}; \frac{1}{L} q = 10q; L \frac{dq}{dt} = 2 \frac{dq}{dt} \Rightarrow 2 \frac{dq}{dt} + 4 \frac{dq}{dt} + 10q = 20 \cos t, q(0) = 2, q'(0) = 3$$

$$6. L = 2, R = 12, C = \frac{1}{16}, E(t) = 300 \Rightarrow 2 \frac{d^2q}{dt^2} + 12 \frac{dq}{dt} + 16q = 300, q(0) = 0, q'(0) = 0$$

$$7. mg = 16 \Rightarrow m = \frac{8}{32}; k = 1; \text{resistance} = \text{velocity} \Rightarrow \delta = 1 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0, y(0) = 2, y'(0) = 2 \\ \Rightarrow \frac{1}{2} r^2 + r + 1 = 0 \Rightarrow r^2 + 2r + 2 = 0 \Rightarrow r = \frac{-2 \pm \sqrt{2^2 - 4(1)(2)}}{2(1)} = -1 \pm i \Rightarrow y = e^{-t}(c_1 \cos t + c_2 \sin t) \\ \Rightarrow y' = e^{-t}(-c_1 \sin t + c_2 \cos t) = e^{-t}(c_1 \cos t + c_2 \sin t); y(0) = 2 \Rightarrow c_1 = 2; y'(0) = 2 \Rightarrow c_2 - c_1 = 2 \Rightarrow c_2 = 4 \\ \Rightarrow y(t) = e^{-t}(2 \cos t + 4 \sin t). \text{ At } t = \pi, y = e^{-\pi}(2 \cos \pi + 4 \sin \pi) = -2e^{-\pi} \approx -0.0864 \Rightarrow 0.0864 \text{ ft above equilibrium.}$$

$$8. w = 8 \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \text{resistance} = 1.5 v \Rightarrow \delta = 1.5 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3 \\ \Rightarrow \frac{1}{4} r^2 + 1.5r + 2 = 0 \Rightarrow r^2 + 6r + 8 = 0 \Rightarrow (r+4)(r+2) \Rightarrow r = -4 \text{ or } r = -2 \Rightarrow y = c_1 e^{-4t} + c_2 e^{-2t} \\ \Rightarrow y' = -4c_1 e^{-4t} - 2c_2 e^{-2t}; y(0) = -2 \Rightarrow c_1 + c_2 = -2; \Rightarrow y'(0) = 3 \Rightarrow -4c_1 - 2c_2 = 3 \Rightarrow c_1 = \frac{1}{2}, c_2 = -\frac{5}{2} \\ \Rightarrow y(t) = \frac{1}{2} e^{-4t} - \frac{5}{2} e^{-2t}. \text{ At } t = 2, y = \frac{1}{2} e^{-8} - \frac{5}{2} e^{-4} \approx -0.0456 \Rightarrow 0.0456 \text{ ft above equilibrium.}$$

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web the trend for electron affinity increases upwards through a group and rightwards along a period the noble gases already have full octets so the increasing trend stops at the halogens and the noble gases have extremely low values the element with the highest electron affinity is fluorine

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web respond to the questions and prompts in the orange boxes atomic radius electron affinity electron cloud energy level group ion ionization energy metal nonmetal nucleus period periodic trends picometer valence electron do these before using the gizmo

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web periodic trends straw lab objective to create a visual representation of the following periodic trends atomic size ionization energy and electronegativity atomic radius the size of an atom measured in either nanometers nm or angstroms Å

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web jan 28 2019 by mapping specific trends directly onto a blank periodic table the activity uses the periodic table as a foundational aspect of the major trends allowing for students to make connections between placement on the periodic table

and a specific trend

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web you might need periodic table the first two ionization energies for beryllium are shown below be g be g e be g be 2 g e i 1 900 kj mol i 2 1757 kj mol which of the following identifies the most probable value for the third ionization energy for be and provides the best justification

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web the purpose of this lab is to introduce students to periodic trends it gives students an opportunity to explore the values of different properties for all elements in the periodic table to determine which properties of the elements follow a periodic trend

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web 1 name date per periodic trends lab periodic law states that when the elements are arranged in order of increasing atomic number there is a periodic repetition of their chemical and physical properties elements within the same group have the most similar chemical and physical properties although not identical

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web simulation periodic trends answer key background in this investigation you will examine several periodic trends including atomic radius ionization energy and ionic radius you will

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web 1 how does atomic radius change as you move from left to right across a period explain your answer in terms of the number of protons in the nucleus 2 how does atomic radius change as you move from top to bottom in a group explain your answer in terms of the number of electron shells 3 on the representation of the periodic table below

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web mar 13 2023 across the periodic table sizes of atoms show the following trends with many irregularities size increases down a group the outermost electrons are in successively more extensive orbitals as n increases

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web similarities and differences among the elements give rise to so called periodic trends both across rows and within columns of the periodic table recognizing periodic trends in the physical and chemical properties of the elements is key to understanding the full value of the periodic table concepts periodic table periodic trends

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