Diff03 Answers for No.9124

$$Ans1 = \begin{bmatrix} .1 = \left(f'(x) = 63\,(7x-6)^8\right) & .2 = \left(f'(x) = 6\,(2x^2+2x+9)^5\,(4x+2)\right) \\ .3 = \left(f'(x) = \dfrac{7}{2\sqrt{7x-2}}\right) & .4 = \left(f'(x) = -\dfrac{15x^4}{(3x^5-2)^2}\right) \\ .5 = \left(f'(x) = -\dfrac{5\,(4x+2)}{(2x^2+2x+5)^6}\right) & .6 = \left(f'(x) = \dfrac{3}{2\,(5-3x)^{(3/2)}}\right) \\ .7 = \left(f'(x) = 5\,(7x+5)^3 + 21\,(5x-4)\,(7x+5)^2\right) & .8 = \left(f'(x) = \dfrac{159\,(5x-4)^2}{(7x+5)^4}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = -96] \\ .2 = [F'(k) = 24] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = [F'(k) = 90] \\ .2 = [F'(k) = 2] \end{bmatrix}, \quad Ans4 = \begin{bmatrix} .1 = \left[\dfrac{dx}{dt} = \dfrac{6t}{(1+t^2)^2}\right] \\ .2 = \left[\dfrac{dP}{dx} = \dfrac{1}{\sqrt{x}}\right] \\ .3 = \left[\dfrac{2\sqrt{3}\sqrt{65}}{4225}, 0.007\right] \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9197

$$Ans1 = \begin{bmatrix} .1 = (f'(x) = 35\,(7x+5)^4) & .2 = (f'(x) = 6\,(2x^2+2x+5)^5\,(4x+2)) \\ .3 = \left(f'(x) = \dfrac{4}{\sqrt{8x-7}}\right) & .4 = \left(f'(x) = -\dfrac{40x^4}{(8x^5-5)^2}\right) \\ .5 = \left(f'(x) = -\dfrac{3\,(4x+2)}{(2x^2+2x+5)^4}\right) & .6 = \left(f'(x) = -\dfrac{1}{(2x-3)^{(3/2)}}\right) \\ .7 = (f'(x) = 5\,(7x-6)^3 + 21\,(5x-4)\,(7x-6)^2) & .8 = \left(f'(x) = -\dfrac{6\,(5x-4)^2}{(7x-6)^4}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = 40] \\ .2 = [F'(k) = -4] \end{bmatrix},\ Ans3 = \begin{bmatrix} .1 = [F'(k) = 348] \\ .2 = \left[F'(k) = \dfrac{31}{3}\right] \end{bmatrix},\ Ans4 = \begin{bmatrix} .1 = \left[\dfrac{dx}{dt} = \dfrac{24t}{(4+t^2)^2}\right] \\ .2 = \left[\dfrac{dP}{dx} = \dfrac{3}{\sqrt{x}}\right] \\ .3 = \left[\dfrac{3\sqrt{3}\sqrt{17}}{289}, 0.074\right] \end{bmatrix},\ ,\begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9252

$$Ans1 = \begin{bmatrix} .1 = \left(f'(x) = 35\,(5\,x+7)^6\right) & .2 = \left(f'(x) = 3\,(2\,x^4+2\,x+7)^2\,(8\,x^3+2)\right) \\ .3 = \left(f'(x) = \frac{5}{2\sqrt{5\,x-4}}\right) & .4 = \left(f'(x) = -\frac{42\,x^5}{(7\,x^6+6)^2}\right) \\ .5 = \left(f'(x) = -\frac{7\,(6\,x+2)}{(3\,x^2+2\,x+2)^8}\right) & .6 = \left(f'(x) = \frac{3}{2\,(4-3\,x)^{(3/2)}}\right) \\ .7 = \left(f'(x) = 4\,(7\,x-3)^3 + 21\,(4\,x+5)\,(7\,x-3)^2\right) & .8 = \left(f'(x) = -\frac{141\,(4\,x+5)^2}{(7\,x-3)^4}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = -48] \\ .2 = [F'(k) = 24] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = [F'(k) = 52] \\ .2 = \left[F'(k) = \frac{15}{16}\right] \end{bmatrix}, \quad Ans4 = \begin{bmatrix} .1 = \left[\frac{dx}{dt} = \frac{56\,t}{(7+t^2)^2}\right] \\ .2 = \left[\frac{dP}{dx} = \frac{3}{\sqrt{x}}\right] \\ .3 = \left[\frac{84\sqrt{11}}{121}, 2.302\right] \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9312

$$Ans1 = \begin{bmatrix} .1 = (f'(x) = 40\,(8\,x-5)^4) & .2 = (f'(x) = 3\,(2\,x^3+2\,x+5)^2\,(6\,x^2+2)) \\ .3 = \left(f'(x) = \frac{3}{2\sqrt{-4+3\,x}}\right) & .4 = \left(f'(x) = -\frac{12\,x^3}{(3\,x^4-7)^2}\right) \\ .5 = \left(f'(x) = -\frac{5\,(6\,x+7)}{(3\,x^2+7\,x-7)^6}\right) & .6 = \left(f'(x) = -\frac{3}{2\,(3\,x-7)^{(3/2)}}\right) \\ .7 = (f'(x) = 8\,(7\,x-3)^5 + 35\,(8\,x+7)\,(7\,x-3)^4) & .8 = \left(f'(x) = -\frac{365\,(8\,x+7)^4}{(7\,x-3)^6}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = 24] \\ .2 = [F'(k) = -18] \end{bmatrix},\ Ans3 = \begin{bmatrix} .1 = [F'(k) = 112] \\ .2 = \left[F'(k) = \frac{20}{9}\right] \end{bmatrix},\ Ans4 = \begin{bmatrix} .1 = \left[\frac{dx}{dt} = \frac{42\,t}{(3+t^2)^2}\right] \\ .2 = \left[\frac{dP}{dx} = \frac{1}{\sqrt{x}}\right] \\ .3 = \left[\frac{3\sqrt{7}\sqrt{13}}{676}, 0.042\right] \end{bmatrix},\ ,\ \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9397

$$Ans1 = \begin{bmatrix} .1 = \left(f'(x) = 20\,(4x+7)^4\right) & .2 = \left(f'(x) = 6\,(2x^4+2x+5)^5\,(8x^3+2)\right) \\ .3 = \left(f'(x) = \frac{2}{\sqrt{4x-5}}\right) & .4 = \left(f'(x) = -\frac{21x^2}{(7x^3-3)^2}\right) \\ .5 = \left(f'(x) = -\frac{4\,(6x^2+2)}{(2x^3+2x+3)^5}\right) & .6 = \left(f'(x) = \frac{5}{2\,(8-5x)^{(3/2)}}\right) \\ .7 = \left(f'(x) = 8\,(7x-2)^5 + 35\,(8x+7)\,(7x-2)^4\right) & .8 = \left(f'(x) = -\frac{325\,(8x+7)^4}{(7x-2)^6}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = -30] \\ .2 = [F'(k) = 40] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = [F'(k) = 1500] \\ .2 = \left[F'(k) = \frac{460}{27}\right] \end{bmatrix}, \quad Ans4 = \begin{bmatrix} .1 = \left[\frac{dx}{dt} = \frac{48t}{(4+t^2)^2}\right] \\ .2 = \left[\frac{dP}{dx} = \frac{2}{\sqrt{x}}\right] \\ .3 = \left[\frac{2\sqrt{6}\sqrt{17}}{289}, 0.070\right] \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9449

$$Ans1 = \begin{bmatrix} .1 = (f'(x) = 70\,(7x-4)^9) & .2 = (f'(x) = 4\,(3x^2+8x+8)^3\,(6x+8)) \\ .3 = \left(f'(x) = \dfrac{5}{2\sqrt{5x-4}}\right) & .4 = \left(f'(x) = -\dfrac{35x^6}{(5x^7+7)^2}\right) \\ .5 = \left(f'(x) = -\dfrac{4\,(4x+2)}{(2x^2+2x+7)^5}\right) & .6 = \left(f'(x) = -\dfrac{3}{2\,(-5+3x)^{(3/2)}}\right) \\ .7 = (f'(x) = 8\,(5x+3)^5 + 25\,(8x-7)\,(5x+3)^4) & .8 = \left(f'(x) = \dfrac{295\,(8x-7)^4}{(5x+3)^6}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = -24] \\ .2 = [F'(k) = 98] \end{bmatrix},\ Ans3 = \begin{bmatrix} .1 = [F'(k) = 768] \\ .2 = [F'(k) = 12] \end{bmatrix},\ Ans4 = \begin{bmatrix} .1 = \left[\dfrac{dx}{dt} = \dfrac{64\,t}{(4+t^2)^2}\right] \\ .2 = \left[\dfrac{dP}{dx} = \dfrac{1}{\sqrt{x}}\right] \\ .3 = \left[\dfrac{16\sqrt{2}\sqrt{29}}{841}, 0.145\right] \end{bmatrix}, , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9562

$$Ans1 = \begin{bmatrix} .1 = \left(f'(x) = 18\,(2\,x+7)^8\right) & .2 = \left(f'(x) = 6\,(2\,x^2+2\,x+9)^5\,(4\,x+2)\right) \\ .3 = \left(f'(x) = \frac{7}{2\sqrt{7\,x-5}}\right) & .4 = \left(f'(x) = -\frac{10\,x^4}{(2\,x^5-5)^2}\right) \\ .5 = \left(f'(x) = -\frac{4\,(4\,x+2)}{(2\,x^2+2\,x+5)^5}\right) & .6 = \left(f'(x) = \frac{5}{2\,(8-5\,x)^{(3/2)}}\right) \\ .7 = \left(f'(x) = 5\,(7\,x-4)^3+21\,(5\,x-3)\,(7\,x-4)^2\right) & .8 = \left(f'(x) = \frac{3\,(5\,x-3)^2}{(7\,x-4)^4}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = 0] \\ .2 = [F'(k) = -30] \end{bmatrix},\quad Ans3 = \begin{bmatrix} .1 = [F'(k) = 2016] \\ .2 = \left[F'(k) = \frac{272}{7}\right] \end{bmatrix},\quad Ans4 = \begin{bmatrix} .1 = \left[\frac{dx}{dt} = \frac{112\,t}{(7+t^2)^2}\right] \\ .2 = \left[\frac{dP}{dx} = \frac{1}{\sqrt{x}}\right] \\ .3 = \left[\frac{\sqrt{7}}{28}, 0.094\right] \end{bmatrix},\ ,\ \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9721

$$Ans1 = \begin{bmatrix} .1 = \left(f'(x) = 20\,(2\,x-3)^9\right) & .2 = \left(f'(x) = 4\,(4\,x^4-5\,x-5)^3\,(16\,x^3-5)\right) \\ .3 = \left(f'(x) = \dfrac{5}{2\sqrt{5\,x-4}}\right) & .4 = \left(f'(x) = -\dfrac{28\,x^3}{(7\,x^4+5)^2}\right) \\ .5 = \left(f'(x) = -\dfrac{7\,(6\,x^2+7)}{(2\,x^3+7\,x+7)^8}\right) & .6 = \left(f'(x) = \dfrac{3}{2\,(4-3\,x)^{(3/2)}}\right) \\ .7 = \left(f'(x) = 15\,(5\,x-2)^2\,(-4+3\,x)+3\,(5\,x-2)^3\right) & .8 = \left(f'(x) = -\dfrac{42\,(5\,x-2)^2}{(-4+3\,x)^4}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = -72] \\ .2 = [F'(k) = 0] \end{bmatrix},\quad Ans3 = \begin{bmatrix} .1 = [F'(k) = 1500] \\ .2 = \left[F'(k) = \dfrac{345}{16}\right] \end{bmatrix},\quad Ans4 = \begin{bmatrix} .1 = \left[\dfrac{dx}{dt} = \dfrac{16\,t}{(4+t^2)^2}\right] \\ .2 = \left[\dfrac{dP}{dx} = \dfrac{3}{\sqrt{x}}\right] \\ .3 = \left[\dfrac{3}{2}, 1.500\right] \end{bmatrix},\ ,\ \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9789

$$Ans1 = \begin{bmatrix} .1 = (f'(x) = 40\,(4x+3)^9) & .2 = (f'(x) = 3\,(3x^4-4x+4)^2\,(12x^3-4)) \\ .3 = \left(f'(x) = \frac{7}{2\sqrt{7x-8}}\right) & .4 = \left(f'(x) = -\frac{16x^3}{(4x^4+7)^2}\right) \\ .5 = \left(f'(x) = -\frac{6\,(12x^2-3)}{(4x^3-3x+3)^7}\right) & .6 = \left(f'(x) = -\frac{3}{2\,(3x-2)^{(3/2)}}\right) \\ .7 = (f'(x) = 35\,(7x+5)^4\,(8x+3) + 8\,(7x+5)^5) & .8 = \left(f'(x) = -\frac{95\,(7x+5)^4}{(8x+3)^6}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = -50] \\ .2 = [F'(k) = 40] \end{bmatrix},\ Ans3 = \begin{bmatrix} .1 = [F'(k) = 128] \\ .2 = \left[F'(k) = \frac{40}{9}\right] \end{bmatrix},\ Ans4 = \begin{bmatrix} .1 = \left[\frac{dx}{dt} = \frac{24t}{(6+t^2)^2}\right] \\ .2 = \left[\frac{dP}{dx} = \frac{4}{\sqrt{x}}\right] \\ .3 = \left[\frac{8\sqrt{3}\sqrt{7}}{147}, 0.249\right] \end{bmatrix},\ ,\ \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff03 Answers for No.9795

$$Ans1 = \begin{bmatrix} .1 = \left(f'(x) = 24\,(3\,x+2)^7\right) & .2 = \left(f'(x) = 4\,(3\,x^2+5\,x+5)^3\,(6\,x+5)\right) \\ .3 = \left(f'(x) = -\dfrac{3}{2\sqrt{7-3\,x}}\right) & .4 = \left(f'(x) = -\dfrac{21\,x^2}{(7\,x^3+5)^2}\right) \\ .5 = \left(f'(x) = -\dfrac{5\,(4\,x+2)}{(2\,x^2+2\,x+3)^6}\right) & .6 = \left(f'(x) = \dfrac{2}{(7-4\,x)^{(3/2)}}\right) \\ .7 = \left(f'(x) = 5\,(2\,x-5)^3 + 6\,(5\,x-4)\,(2\,x-5)^2\right) & .8 = \left(f'(x) = -\dfrac{51\,(5\,x-4)^2}{(2\,x-5)^4}\right) \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = [F'(k) = 10] \\ .2 = [F'(k) = 8] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = [F'(k) = 154] \\ .2 = \left[F'(k) = \dfrac{133}{18}\right] \end{bmatrix}, \quad Ans4 = \begin{bmatrix} .1 = \left[\dfrac{dx}{dt} = \dfrac{24\,t}{(3+t^2)^2}\right] \\ .2 = \left[\dfrac{dP}{dx} = \dfrac{3}{\sqrt{x}}\right] \\ .3 = \left[\dfrac{\sqrt{3}}{2}, 0.866\right] \end{bmatrix}, , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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