Diff01 Answers for No.9395

$$Ans1 = (k = 7), \quad , \quad Ans2 = (k = 3), \quad , \quad Ans3 = \begin{bmatrix} a = -3 \\ b = 5 \end{bmatrix}, \quad , \quad Ans4 = \begin{bmatrix} a = 6 \\ b = 8 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (4, 4) \\ .2 = (9, 39) \\ .3 = 7 \\ .4 = (5, 7) \\ .5 = 3 \\ .6 = 2 \end{bmatrix}, \quad , \quad Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 109] \\ .2 = [\mathrm{f}(b) = 120.48,\ h = 0.2,\ RateOfChange = 57.400] \\ .3 = [\mathrm{f}(c) = 114.67,\ h = 0.1,\ RateOfChange = 56.700] \\ .4 = [\mathrm{f}(d) = 109.5607,\ h = 0.01,\ RateOfChange = 56.070] \\ .5 = [RateOfChange\ at\ the\ point\ a = 56] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\,\pi\,r] \\ .2 = [\mathrm{f}(r + h) = 2\,\pi\,(r + h)] \\ .3 = \left[\frac{2\,\pi\,(r + h) - 2\,\pi\,r}{h}\right] \\ [.4 = [2\,\pi], .5 = [2\,\pi], .6 = [2\,\pi]] \end{bmatrix}, \quad , \quad Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi\,r^2] \\ .2 = [\mathrm{f}(r + h) = \pi\,(r + h)^2] \\ .3 = \left[\frac{\pi\,(r + h)^2 - \pi\,r^2}{h}\right] \\ [.4 = [2\,\pi\,r], .5 = [16\,\pi], .6 = [12\,\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \frac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x + h) = \frac{\sqrt{3}\,(x + h)^2}{4}\right] \\ .3 = \left[\frac{\frac{\sqrt{3}\,(x + h)^2}{4} - \frac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\frac{\sqrt{3}\,x}{2}\right], .5 = [\sqrt{3}], .6 = \left[\frac{7\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff01 Answers for No.9419

$$Ans1 = (k = 3), \quad , \quad Ans2 = (k = 2), \quad , \quad Ans3 = \begin{bmatrix} a = 2 \\ b = -41 \end{bmatrix}, \quad , \quad Ans4 = \begin{bmatrix} a = 6 \\ b = 2 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (2, 8) \\ .2 = (4, 20) \\ .3 = 6 \\ .4 = (3, 13) \\ .5 = 5 \\ .6 = 4 \end{bmatrix}, \quad , \quad Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 67] \\ .2 = [\mathrm{f}(b) = 76.92,\ h = 0.2,\ RateOfChange = 49.600] \\ .3 = [\mathrm{f}(c) = 71.88,\ h = 0.1,\ RateOfChange = 48.800] \\ .4 = [\mathrm{f}(d) = 67.4808,\ h = 0.01,\ RateOfChange = 48.080] \\ .5 = [RateOfChange\ at\ the\ point\ a = 48] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\,\pi\,r] \\ .2 = [\mathrm{f}(r+h) = 2\,\pi\,(r+h)] \\ .3 = \left[\dfrac{2\,\pi\,(r+h) - 2\,\pi\,r}{h}\right] \\ [.4 = [2\,\pi],\ .5 = [2\,\pi],\ .6 = [2\,\pi]] \end{bmatrix}, \quad , \quad Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi\,r^2] \\ .2 = [\mathrm{f}(r+h) = \pi\,(r+h)^2] \\ .3 = \left[\dfrac{\pi\,(r+h)^2 - \pi\,r^2}{h}\right] \\ [.4 = [2\,\pi\,r],\ .5 = [14\,\pi],\ .6 = [6\,\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \dfrac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \dfrac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\dfrac{\dfrac{\sqrt{3}\,(x+h)^2}{4} - \dfrac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\dfrac{\sqrt{3}\,x}{2}\right],\ .5 = [4\sqrt{3}],\ .6 = \left[\dfrac{5\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff01 Answers for No.9428

$$Ans1 = (k = 3), \quad , \quad Ans2 = (k = 4), \quad , \quad Ans3 = \begin{bmatrix} a = -6 \\ b = -37 \end{bmatrix}, \quad , \quad Ans4 = \begin{bmatrix} a = 2 \\ b = 7 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (5, 5) \\ .2 = (8, 26) \\ .3 = 7 \\ .4 = (6, 10) \\ .5 = 5 \\ .6 = 4 \end{bmatrix}, \quad , \quad Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 23] \\ .2 = [\mathrm{f}(b) = 28.88, h = 0.2, RateOfChange = 29.400] \\ .3 = [\mathrm{f}(c) = 25.87, h = 0.1, RateOfChange = 28.700] \\ .4 = [\mathrm{f}(d) = 23.2807, h = 0.01, RateOfChange = 28.070] \\ .5 = [RateOfChange\ at\ the\ point\ a = 28] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\,\pi\,r] \\ .2 = [\mathrm{f}(r+h) = 2\,\pi\,(r+h)] \\ .3 = \left[\dfrac{2\,\pi\,(r+h) - 2\,\pi\,r}{h}\right] \\ [.4 = [2\,\pi], .5 = [2\,\pi], .6 = [2\,\pi]] \end{bmatrix}, \quad , \quad Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi\,r^2] \\ .2 = [\mathrm{f}(r+h) = \pi\,(r+h)^2] \\ .3 = \left[\dfrac{\pi\,(r+h)^2 - \pi\,r^2}{h}\right] \\ [.4 = [2\,\pi\,r], .5 = [6\,\pi], .6 = [10\,\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \dfrac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \dfrac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\dfrac{\dfrac{\sqrt{3}\,(x+h)^2}{4} - \dfrac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\dfrac{\sqrt{3}\,x}{2}\right], .5 = [2\sqrt{3}], .6 = \left[\dfrac{3\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff01 Answers for No.9459

$$Ans1 = (k = -2), \quad , Ans2 = (k = 6), \quad , Ans3 = \begin{bmatrix} a = 1 \\ b = 2 \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} a = 3 \\ b = 8 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (2, 2) \\ .2 = (5, 17) \\ .3 = 5 \\ .4 = (3, 5) \\ .5 = 3 \\ .6 = 2 \end{bmatrix}, \quad , Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 36] \\ .2 = [\mathrm{f}(b) = 41.88, h = 0.2, RateOfChange = 29.400] \\ .3 = [\mathrm{f}(c) = 38.87, h = 0.1, RateOfChange = 28.700] \\ .4 = [\mathrm{f}(d) = 36.2807, h = 0.01, RateOfChange = 28.070] \\ .5 = [RateOfChange\ at\ the\ point\ a = 28] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\,\pi\,r] \\ .2 = [\mathrm{f}(r+h) = 2\,\pi\,(r+h)] \\ .3 = \left[\frac{2\,\pi\,(r+h) - 2\,\pi\,r}{h}\right] \\ [.4 = [2\,\pi], .5 = [2\,\pi], .6 = [2\,\pi]] \end{bmatrix}, \quad , Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi\,r^2] \\ .2 = [\mathrm{f}(r+h) = \pi\,(r+h)^2] \\ .3 = \left[\frac{\pi\,(r+h)^2 - \pi\,r^2}{h}\right] \\ [.4 = [2\,\pi\,r], .5 = [6\,\pi], .6 = [14\,\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \frac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \frac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\frac{\frac{\sqrt{3}\,(x+h)^2}{4} - \frac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\frac{\sqrt{3}\,x}{2}\right], .5 = [\sqrt{3}], .6 = \left[\frac{7\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff01 Answers for No.9476

$$Ans1 = (k = 3), \quad , \quad Ans2 = (k = 6), \quad , \quad Ans3 = \begin{bmatrix} a = 6 \\ b = 1 \end{bmatrix}, \quad , \quad Ans4 = \begin{bmatrix} a = 2 \\ b = 6 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (4, 4) \\ .2 = (8, 28) \\ .3 = 6 \\ .4 = (5, 7) \\ .5 = 3 \\ .6 = 2 \end{bmatrix}, \quad , \quad Ans6 = \begin{bmatrix} .1 = [f(a) = 52] \\ .2 = [f(b) = 58.20, h = 0.2, RateOfChange = 31.000] \\ .3 = [f(c) = 55.05, h = 0.1, RateOfChange = 30.500] \\ .4 = [f(d) = 52.3005, h = 0.01, RateOfChange = 30.050] \\ .5 = [RateOfChange\ at\ the\ point\ a = 30] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [f(r) = 2\pi r] \\ .2 = [f(r+h) = 2\pi(r+h)] \\ .3 = \left[\frac{2\pi(r+h) - 2\pi r}{h}\right] \\ [.4 = [2\pi], .5 = [2\pi], .6 = [2\pi]] \end{bmatrix}, \quad , \quad Ans8 = \begin{bmatrix} .1 = [f(r) = \pi r^2] \\ .2 = [f(r+h) = \pi(r+h)^2] \\ .3 = \left[\frac{\pi(r+h)^2 - \pi r^2}{h}\right] \\ [.4 = [2\pi r], .5 = [6\pi], .6 = [12\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[f(x) = \frac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[f(x+h) = \frac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\frac{\frac{\sqrt{3}\,(x+h)^2}{4} - \frac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\frac{\sqrt{3}\,x}{2}\right], .5 = [\sqrt{3}], .6 = \left[\frac{5\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff01 Answers for No.9491

$$Ans1 = (k = 4), \quad , \quad Ans2 = (k = 4), \quad , \quad Ans3 = \begin{bmatrix} a = 4 \\ b = 2 \end{bmatrix}, \quad , \quad Ans4 = \begin{bmatrix} a = 5 \\ b = 3 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (3, 8) \\ .2 = (6, 29) \\ .3 = 7 \\ .4 = (4, 13) \\ .5 = 5 \\ .6 = 4 \end{bmatrix}, \quad , \quad Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 26] \\ .2 = [\mathrm{f}(b) = 30.20, h = 0.2, RateOfChange = 21.000] \\ .3 = [\mathrm{f}(c) = 28.05, h = 0.1, RateOfChange = 20.500] \\ .4 = [\mathrm{f}(d) = 26.2005, h = 0.01, RateOfChange = 20.050] \\ .5 = [RateOfChange\ at\ the\ point\ a = 20] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\pi r] \\ .2 = [\mathrm{f}(r+h) = 2\pi(r+h)] \\ .3 = \left[\dfrac{2\pi(r+h) - 2\pi r}{h}\right] \\ [.4 = [2\pi], .5 = [2\pi], .6 = [2\pi]] \end{bmatrix}, \quad , \quad Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi r^2] \\ .2 = [\mathrm{f}(r+h) = \pi(r+h)^2] \\ .3 = \left[\dfrac{\pi(r+h)^2 - \pi r^2}{h}\right] \\ [.4 = [2\pi r], .5 = [12\pi], .6 = [10\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \dfrac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \dfrac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\dfrac{\dfrac{\sqrt{3}\,(x+h)^2}{4} - \dfrac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\dfrac{\sqrt{3}\,x}{2}\right], .5 = [3\sqrt{3}], .6 = \left[\dfrac{5\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

Diff01 Answers for No.9633

$$Ans1 = (k = 1), \quad , \quad Ans2 = (k = 6), \quad , \quad Ans3 = \begin{bmatrix} a = -5 \\ b = 1 \end{bmatrix}, \quad , \quad Ans4 = \begin{bmatrix} a = 5 \\ b = 8 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (2, 2) \\ .2 = (6, 26) \\ .3 = 6 \\ .4 = (3, 5) \\ .5 = 3 \\ .6 = 2 \end{bmatrix}, \quad , \quad Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 106] \\ .2 = [\mathrm{f}(b) = 117.48, h = 0.2, RateOfChange = 57.400] \\ .3 = [\mathrm{f}(c) = 111.67, h = 0.1, RateOfChange = 56.700] \\ .4 = [\mathrm{f}(d) = 106.5607, h = 0.01, RateOfChange = 56.070] \\ .5 = [RateOfChange\ at\ the\ point\ a = 56] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\,\pi\,r] \\ .2 = [\mathrm{f}(r+h) = 2\,\pi\,(r+h)] \\ .3 = \left[\dfrac{2\,\pi\,(r+h) - 2\,\pi\,r}{h}\right] \\ [.4 = [2\,\pi], .5 = [2\,\pi], .6 = [2\,\pi]] \end{bmatrix}, \quad , \quad Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi\,r^2] \\ .2 = [\mathrm{f}(r+h) = \pi\,(r+h)^2] \\ .3 = \left[\dfrac{\pi\,(r+h)^2 - \pi\,r^2}{h}\right] \\ [.4 = [2\,\pi\,r], .5 = [10\,\pi], .6 = [12\,\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \dfrac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \dfrac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\dfrac{\dfrac{\sqrt{3}\,(x+h)^2}{4} - \dfrac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\dfrac{\sqrt{3}\,x}{2}\right], .5 = [3\sqrt{3}], .6 = \left[\dfrac{5\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

Diff01 Answers for No.9711

$$Ans1 = (k = 7), \quad , \; Ans2 = (k = 6), \quad , \; Ans3 = \begin{bmatrix} a = -78 \\ b = 3 \end{bmatrix}, \quad , \; Ans4 = \begin{bmatrix} a = 2 \\ b = 6 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (5, 5) \\ .2 = (9, 37) \\ .3 = 8 \\ .4 = (6, 10) \\ .5 = 5 \\ .6 = 4 \end{bmatrix}, \quad , \; Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 51] \\ .2 = [\mathrm{f}(b) = 57.20, h = 0.2, RateOfChange = 31.000] \\ .3 = [\mathrm{f}(c) = 54.05, h = 0.1, RateOfChange = 30.500] \\ .4 = [\mathrm{f}(d) = 51.3005, h = 0.01, RateOfChange = 30.050] \\ .5 = [RateOfChange\ at\ the\ point\ a = 30] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\pi r] \\ .2 = [\mathrm{f}(r+h) = 2\pi(r+h)] \\ .3 = \left[\dfrac{2\pi(r+h) - 2\pi r}{h}\right] \\ [.4 = [2\pi], .5 = [2\pi], .6 = [2\pi]] \end{bmatrix}, \quad , \; Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi r^2] \\ .2 = [\mathrm{f}(r+h) = \pi(r+h)^2] \\ .3 = \left[\dfrac{\pi(r+h)^2 - \pi r^2}{h}\right] \\ [.4 = [2\pi r], .5 = [14\pi], .6 = [6\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \dfrac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \dfrac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\dfrac{\dfrac{\sqrt{3}\,(x+h)^2}{4} - \dfrac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\dfrac{\sqrt{3}\,x}{2}\right], .5 = \left[\dfrac{7\sqrt{3}}{2}\right], .6 = \left[\dfrac{5\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \; \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff01 Answers for No.9784

$$Ans1 = (k = 7), \quad , Ans2 = (k = 3), \quad , Ans3 = \begin{bmatrix} a = 2 \\ b = -31 \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} a = 5 \\ b = 3 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (1, 4) \\ .2 = (6, 39) \\ .3 = 7 \\ .4 = (2, 7) \\ .5 = 3 \\ .6 = 2 \end{bmatrix}, \quad , Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 9] \\ .2 = [\mathrm{f}(b) = 12.36, h = 0.2, RateOfChange = 16.800] \\ .3 = [\mathrm{f}(c) = 10.64, h = 0.1, RateOfChange = 16.400] \\ .4 = [\mathrm{f}(d) = 9.1604, h = 0.01, RateOfChange = 16.040] \\ .5 = [RateOfChange\ at\ the\ point\ a = 16] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\,\pi\,r] \\ .2 = [\mathrm{f}(r+h) = 2\,\pi\,(r+h)] \\ .3 = \left[\frac{2\,\pi\,(r+h) - 2\,\pi\,r}{h}\right] \\ [.4 = [2\,\pi], .5 = [2\,\pi], .6 = [2\,\pi]] \end{bmatrix}, \quad , Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi\,r^2] \\ .2 = [\mathrm{f}(r+h) = \pi\,(r+h)^2] \\ .3 = \left[\frac{\pi\,(r+h)^2 - \pi\,r^2}{h}\right] \\ [.4 = [2\,\pi\,r], .5 = [12\,\pi], .6 = [6\,\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \frac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \frac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\frac{\frac{\sqrt{3}\,(x+h)^2}{4} - \frac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\frac{\sqrt{3}\,x}{2}\right], .5 = [3\sqrt{3}], .6 = [\sqrt{3}]\right] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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Diff01 Answers for No.10143

$$Ans1 = (k = 7), \quad , Ans2 = (k = 4), \quad , Ans3 = \begin{bmatrix} a = 5 \\ b = 1 \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} a = 4 \\ b = 6 \end{bmatrix}$$

$$Ans5 = \begin{bmatrix} .1 = (2, 6) \\ .2 = (5, 27) \\ .3 = 7 \\ .4 = (3, 11) \\ .5 = 5 \\ .6 = 4 \end{bmatrix}, \quad , Ans6 = \begin{bmatrix} .1 = [\mathrm{f}(a) = 106] \\ .2 = [\mathrm{f}(b) = 117.48, h = 0.2, RateOfChange = 57.400] \\ .3 = [\mathrm{f}(c) = 111.67, h = 0.1, RateOfChange = 56.700] \\ .4 = [\mathrm{f}(d) = 106.5607, h = 0.01, RateOfChange = 56.070] \\ .5 = [RateOfChange\ at\ the\ point\ a = 56] \end{bmatrix}$$

$$Ans7 = \begin{bmatrix} .1 = [\mathrm{f}(r) = 2\pi r] \\ .2 = [\mathrm{f}(r+h) = 2\pi(r+h)] \\ .3 = \left[\dfrac{2\pi(r+h) - 2\pi r}{h}\right] \\ [.4 = [2\pi], .5 = [2\pi], .6 = [2\pi]] \end{bmatrix}, \quad , Ans8 = \begin{bmatrix} .1 = [\mathrm{f}(r) = \pi r^2] \\ .2 = [\mathrm{f}(r+h) = \pi(r+h)^2] \\ .3 = \left[\dfrac{\pi(r+h)^2 - \pi r^2}{h}\right] \\ [.4 = [2\pi r], .5 = [6\pi], .6 = [4\pi]] \end{bmatrix}$$

$$Ans9 = \begin{bmatrix} .1 = \left[\mathrm{f}(x) = \dfrac{\sqrt{3}\,x^2}{4}\right] \\ .2 = \left[\mathrm{f}(x+h) = \dfrac{\sqrt{3}\,(x+h)^2}{4}\right] \\ .3 = \left[\dfrac{\dfrac{\sqrt{3}\,(x+h)^2}{4} - \dfrac{\sqrt{3}\,x^2}{4}}{h}\right] \\ \left[.4 = \left[\dfrac{\sqrt{3}\,x}{2}\right], .5 = [4\sqrt{3}], .6 = \left[\dfrac{3\sqrt{3}}{2}\right]\right] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

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