

[illegible]

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (5x - 4)^5) & .2 = (f(x) = (2x^2 + 2x + 5)^5) \\ .3 = (f(x) = \sqrt{3 - 4x}) & .4 = \left(f(x) = \frac{1}{6x^5 + 5} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^2 + 2x + 5)^7} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{3x - 4}} \right) \\ .7 = (f(x) = (8x + 3)(7x + 4)^5) & .8 = \left(f(x) = \frac{(8x + 3)^5}{(7x + 4)^5} \right) \end{array} \right]$$

No2 : k = 3											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	1	-14	-3	4		1	-6	0	4	-3	
-5	2	-12	-4	3		2	-5	2	3	-4	
-4	3	-10	-5	2		3	-4	4	2	-5	
-3	4	-8	-6	1		4	-3	6	1	-6	
-2	5	-6	-7	0		5	-2	8	0	-7	
-1	6	-4	-6	-1		6	-1	10	-1	-8	
0	7	-2	-5	-2		7	0	12	-2	-9	

No3 : k = 7 =====										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	3	2	1	0	-1	-2	-3	-4	-5	
g'(x)	6	5	4	3	2	1	0	-1	-2	

x	1	2	3	4	5	6	7	8	9
g(x)	-6	-7	-8	9	8	7	6	5	4
g'(x)	-3	-4	-5	-6	-7	-8	-9	-10	-11

$$No04 = \left[x(t) = \frac{3t^2}{7+t^2}, P(x) = 8\sqrt{x-3}, k=8 \right]$$

[illegible]

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (3x - 4)^7) & .2 = (f(x) = (2x^2 + 2x + 7)^4) \\ .3 = (f(x) = \sqrt{2 - 7x}) & .4 = \left(f(x) = \frac{1}{5x^5 + 7} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^2 + 2x + 5)^6} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{-6 + 5x}} \right) \\ .7 = (f(x) = (7x + 4)(8x - 7)^4) & .8 = \left(f(x) = \frac{(7x + 4)^4}{(8x - 7)^4} \right) \end{array} \right]$$

No2 : k = 2											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	4	4	3	-12		1	-3	-3	-4	2	
-5	3	3	4	-10		2	-4	-4	-3	4	
-4	2	2	5	-8		3	-5	-5	-2	6	
-3	1	1	6	-6		4	-6	-6	-1	8	
-2	0	0	7	-4		5	7	-7	0	10	
-1	-1	-1	-6	-2		6	6	-8	1	12	
0	-2	-2	-5	0		7	5	-9	2	14	

No3 : k = 7										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	-5	-4	-3	-2	-1	0	1	2	3	
g'(x)	12	10	8	6	4	2	0	-2	-4	

x	1	2	3	4	5	6	7	8	9
g(x)	4	5	6	7	8	9	-8	-7	-6
g'(x)	-6	-8	-10	-12	-14	-16	-18	-20	-22

$$No04 = \left[x(t) = \frac{8t^2}{4+t^2}, P(x) = 8\sqrt{x} - 7, k = 5 \right]$$

[illegible]

$$\text{No01} = \left[\begin{array}{ll} .1 = (f(x) = (2x + 3)^8) & .2 = (f(x) = (4x^4 + 5x + 5)^5) \\ .3 = (f(x) = \sqrt{3 - 4x}) & .4 = \left(f(x) = \frac{1}{8x^7 - 5} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^2 + 2x + 7)^7} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{3x - 4}} \right) \\ .7 = (f(x) = (2x - 7)^4 (7x + 6)) & .8 = \left(f(x) = \frac{(2x - 7)^4}{(7x + 6)^4} \right) \end{array} \right]$$

No2 : k = 5											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	4	16	2	-6		1	-3	2	-5	1	
-5	5	14	1	-5		2	-2	0	-6	2	
-4	6	12	0	-4		3	-1	-2	7	3	
-3	7	10	-1	-3		4	0	-4	6	4	
-2	-6	8	-2	-2		5	1	-6	5	5	
-1	-5	6	-3	-1		6	2	-8	4	6	
0	-4	4	-4	0		7	3	-10	3	7	

No3 : k = 6										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	2	1	0	-1	-2	-3	-4	-5	-6	
g'(x)	7	6	5	4	3	2	1	0	-1	

x	1	2	3	4	5	6	7	8	9
$g(x)$	-7	-8	9	8	7	6	5	4	3
$g'(x)$	-2	-3	-4	-5	-6	-7	-8	-9	-10

$$No04 = \left[x(t) = \frac{6t^2}{3+t^2}, P(x) = 2\sqrt{x} - 7, k = 4 \right]$$

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Diff03 for No.10017

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (7x - 4)^6) & .2 = (f(x) = (3x^4 - 8x + 8)^4) \\ .3 = (f(x) = \sqrt{4 - 5x}) & .4 = \left(f(x) = \frac{1}{8x^7 - 3} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^4 + 2x + 7)^5} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{5 - 8x}} \right) \\ .7 = (f(x) = (8x - 3)(3x - 5)^3) & .8 = \left(f(x) = \frac{(8x - 3)^3}{(3x - 5)^3} \right) \end{array} \right]$$

No2 : k = 6											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	-1	-4	-3	10		1	6	3	4	-4	
-5	-2	-3	-2	8		2	5	4	5	-6	
-4	-3	-2	-1	6		3	4	5	6	-8	
-3	-4	-1	0	4		4	3	6	7	-10	
-2	-5	0	1	2		5	2	7	-6	-12	
-1	-6	1	2	0		6	1	8	-5	-14	
0	7	2	3	-2		7	0	9	-4	-16	

No3 : k = 6										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	-3	-2	-1	0	1	2	3	4	5	
g'(x)	9	8	7	6	5	4	3	2	1	

x	1	2	3	4	5	6	7	8	9	
g(x)	6	7	8	9	-8	-7	-6	-5	-4	
g'(x)	0	-1	-2	-3	-4	-5	-6	-7	-8	

$$No04 = \left[x(t) = \frac{8t^2}{6+t^2}, P(x) = 8\sqrt{x} - 9, k = 3 \right]$$

[illegible]

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (5x - 4)^9) & .2 = (f(x) = (2x^2 + 2x + 9)^7) \\ .3 = (f(x) = \sqrt{-6 + 5x}) & .4 = \left(f(x) = \frac{1}{5x^7 + 3} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^4 + 2x + 7)^7} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{3 - 7x}} \right) \\ .7 = (f(x) = (6x + 7)^3 (7x - 5)) & .8 = \left(f(x) = \frac{(6x + 7)^3}{(7x - 5)^3} \right) \end{array} \right]$$

No2 : k = 2											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	-3	-14	2	7		1	4	0	-5	0	
-5	-2	-12	1	6		2	5	2	-6	-1	
-4	-1	-10	0	5		3	6	4	7	-2	
-3	0	-8	-1	4		4	7	6	6	-3	
-2	1	-6	-2	3		5	-6	8	5	-4	
-1	2	-4	-3	2		6	-5	10	4	-5	
0	3	-2	-4	1		7	-4	12	3	-6	

No3 : k = 4										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	-3	-2	-1	0	1	2	3	4	5	
g'(x)	14	12	10	8	6	4	2	0	-2	

x	1	2	3	4	5	6	7	8	9	
g(x)	6	7	8	9	-8	-7	-6	-5	-4	
g'(x)	-4	-6	-8	-10	-12	-14	-16	-18	-20	

$$No04 = \left[x(t) = \frac{8t^2}{6+t^2}, P(x) = 4\sqrt{x} - 3, k = 5 \right]$$

[illegible]

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (5x + 3)^9) & .2 = (f(x) = (2x^2 + 2x + 9)^7) \\ .3 = (f(x) = \sqrt{7 - 8x}) & .4 = \left(f(x) = \frac{1}{3x^6 + 8} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^2 + 7x - 7)^5} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{4x - 5}} \right) \\ .7 = (f(x) = (5x + 8)(3x + 5)^3) & .8 = \left(f(x) = \frac{(5x + 8)^3}{(3x + 5)^3} \right) \end{array} \right]$$

No2 : k = 5											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	-3	14	1	-6		1	4	0	-6	1	
-5	-2	12	0	-5		2	5	-2	7	2	
-4	-1	10	-1	-4		3	6	-4	6	3	
-3	0	8	-2	-3		4	7	-6	5	4	
-2	1	6	-3	-2		5	-6	-8	4	5	
-1	2	4	-4	-1		6	-5	-10	3	6	
0	3	2	-5	0		7	-4	-12	2	7	

No3 : k = 3 =====										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	-5	-4	-3	-2	-1	0	1	2	3	
g'(x)	-18	-16	-14	-12	-10	-8	-6	-4	-2	

x	1	2	3	4	5	6	7	8	9	
g(x)	4	5	6	7	8	9	-8	-7	-6	
g'(x)	0	2	4	6	8	10	12	14	16	

$$No04 = \left[x(t) = \frac{7t^2}{2+t^2}, P(x) = 8\sqrt{x} - 9, k = 5 \right]$$

[illegible]

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (3x + 2)^5) & .2 = (f(x) = (2x^2 + 2x + 5)^7) \\ .3 = (f(x) = \sqrt{3 - 4x}) & .4 = \left(f(x) = \frac{1}{5x^4 - 3} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^4 + 3x - 3)^3} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{5 - 8x}} \right) \\ .7 = (f(x) = (7x - 4)^4 (3x + 7)) & .8 = \left(f(x) = \frac{(7x - 4)^4}{(3x + 7)^4} \right) \end{array} \right]$$

No2 : k = 2											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	-3	14	2	-8		1	4	0	-5	-1	
-5	-2	12	1	-7		2	5	-2	-6	0	
-4	-1	10	0	-6		3	6	-4	7	1	
-3	0	8	-1	-5		4	7	-6	6	2	
-2	1	6	-2	-4		5	-6	-8	5	3	
-1	2	4	-3	-3		6	-5	-10	4	4	
0	3	2	-4	-2		7	-4	-12	3	5	

No3 : k = 8										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	-3	-2	-1	0	1	2	3	4	5	
g'(x)	-14	-12	-10	-8	-6	-4	-2	0	2	

x	1	2	3	4	5	6	7	8	9	
g(x)	6	7	8	9	-8	-7	-6	-5	-4	
g'(x)	4	6	8	10	12	14	16	18	20	

$$No04 = \left[x(t) = \frac{7t^2}{1+t^2}, P(x) = 4\sqrt{x} - 9, k = 7 \right]$$

[illegible]

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (3x + 7)^9) & .2 = (f(x) = (2x^3 + 2x + 9)^5) \\ .3 = (f(x) = \sqrt{-5 + 2x}) & .4 = \left(f(x) = \frac{1}{4x^7 - 3} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^2 + 2x + 7)^4} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{3 - 5x}} \right) \\ .7 = (f(x) = (7x + 2)^4(8x - 3)) & .8 = \left(f(x) = \frac{(7x + 2)^4}{(8x - 3)^4} \right) \end{array} \right]$$

No2 : k = 2											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	-1	-8	1	14		1	6	-1	-6	0	
-5	-2	-7	2	12		2	5	0	-5	-2	
-4	-3	-6	3	10		3	4	1	-4	-4	
-3	-4	-5	4	8		4	3	2	-3	-6	
-2	-5	-4	5	6		5	2	3	-2	-8	
-1	-6	-3	6	4		6	1	4	-1	-10	
0	-7	-2	7	2		7	0	5	0	-12	

No3 : k = 2										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	4	3	2	1	0	-1	-2	-3	-4	
g'(x)	10	8	6	4	2	0	-2	-4	-6	

x	1	2	3	4	5	6	7	8	9
g(x)	-5	-6	-7	-8	9	8	7	6	5
g'(x)	-8	-10	-12	-14	-16	-18	-20	-22	-24

$$No04 = \left[x(t) = \frac{6t^2}{2+t^2}, P(x) = 4\sqrt{x-11}, k=2 \right]$$

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (-3 + 4x)^{11}) & .2 = (f(x) = (2x^3 + 2x + 11)^3) \\ .3 = (f(x) = \sqrt{5x - 8}) & .4 = \left(f(x) = \frac{1}{5x^4 + 2} \right) \\ .5 = \left(f(x) = \frac{1}{(3x^2 - 5x + 5)^4} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{5 - 7x}} \right) \\ .7 = (f(x) = (7x - 8)^5 (5x + 6)) & .8 = \left(f(x) = \frac{(7x - 8)^5}{(5x + 6)^5} \right) \end{array} \right]$$

No2 : k = 6											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	-2	5	-2	-16		1	5	-2	5	-2	
-5	-1	4	-3	-14		2	6	-3	4	0	
-4	0	3	-4	-12		3	7	-4	3	2	
-3	1	2	-5	-10		4	-6	-5	2	4	
-2	2	1	-6	-8		5	-5	-6	1	6	
-1	3	0	7	-6		6	-4	-7	0	8	
0	4	-1	6	-4		7	-3	-8	-1	10	

No3 : k = 7										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	0	1	2	3	4	5	6	7	8	
g'(x)	10	8	6	4	2	0	-2	-4	-6	

x	1	2	3	4	5	6	7	8	9	
g(x)	9	-8	-7	-6	-5	-4	-3	-2	-1	
g'(x)	-8	-10	-12	-14	-16	-18	-20	-22	-24	

$$No04 = \left[x(t) = \frac{7t^2}{3+t^2}, P(x) = 6\sqrt{x} - 7, k = 2 \right]$$

[illegible]

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (4x + 5)^9) & .2 = (f(x) = (2x^3 + 2x + 9)^7) \\ .3 = (f(x) = \sqrt{6x - 7}) & .4 = \left(f(x) = \frac{1}{7x^6 + 5} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^4 - 5x - 5)^3} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{7x - 4}} \right) \\ .7 = (f(x) = (5x - 4)(7x - 2)^3) & .8 = \left(f(x) = \frac{(5x - 4)^3}{(7x - 2)^3} \right) \end{array} \right]$$

No2 : k = 2											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	3	-4	2	8		1	-4	3	-5	-6	
-5	4	-3	1	6		2	-3	4	-6	-8	
-4	5	-2	0	4		3	-2	5	7	-10	
-3	6	-1	-1	2		4	-1	6	6	-12	
-2	7	0	-2	0		5	0	7	5	-14	
-1	-6	1	-3	-2		6	1	8	4	-16	
0	-5	2	-4	-4		7	2	9	3	-18	

No3 : k = 3										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	4	3	2	1	0	-1	-2	-3	-4	
g'(x)	-12	-10	-8	-6	-4	-2	0	2	4	

x	1	2	3	4	5	6	7	8	9
g(x)	-5	-6	-7	-8	9	8	7	6	5
g'(x)	6	8	10	12	14	16	18	20	22

$$No04 = \left[x(t) = \frac{4t^2}{1+t^2}, P(x) = 6\sqrt{x} - 11, k = 7 \right]$$

[illegible]

$$No0I = \left[\begin{array}{ll} .1 = (f(x) = (8x + 3)^8) & .2 = (f(x) = (3x^4 - 5x - 5)^4) \\ .3 = (f(x) = \sqrt{5x - 3}) & .4 = \left(f(x) = \frac{1}{6x^7 + 7} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^4 + 2x + 7)^7} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{2 - 5x}} \right) \\ .7 = (f(x) = (8x + 3)^3 (5x - 8)) & .8 = \left(f(x) = \frac{(8x + 3)^3}{(5x - 8)^3} \right) \end{array} \right]$$

No2 : k = 6											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	2	8	2	-16		1	-5	1	-5	-2	
-5	3	7	1	-14		2	-4	0	-6	0	
-4	4	6	0	-12		3	-3	-1	7	2	
-3	5	5	-1	-10		4	-2	-2	6	4	
-2	6	4	-2	-8		5	-1	-3	5	6	
-1	7	3	-3	-6		6	0	-4	4	8	
0	-6	2	-4	-4		7	1	-5	3	10	

No3 : k = 5										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	-1	0	1	2	3	4	5	6	7	
g'(x)	-18	-16	-14	-12	-10	-8	-6	-4	-2	
x	1	2	3	4	5	6	7	8	9	
g(x)	8	9	-8	-7	-6	-5	-4	-3	-2	
g'(x)	0	2	4	6	8	10	12	14	16	

$$No04 = \left[x(t) = \frac{8t^2}{1+t^2}, P(x) = 2\sqrt{x-13}, k=7 \right]$$

$$No01 = \left[\begin{array}{ll} .1 = (f(x) = (5x - 4)^{11}) & .2 = (f(x) = (2x^2 + 2x + 11)^7) \\ .3 = (f(x) = \sqrt{5 - 8x}) & .4 = \left(f(x) = \frac{1}{8x^7 + 7} \right) \\ .5 = \left(f(x) = \frac{1}{(2x^2 + 2x + 7)^5} \right) & .6 = \left(f(x) = \frac{1}{\sqrt{5x - 8}} \right) \\ .7 = (f(x) = (3x + 7)^3 (7x + 4)) & .8 = \left(f(x) = \frac{(3x + 7)^3}{(7x + 4)^3} \right) \end{array} \right]$$

No2 : k = 4											
x	f(x)	f'(x)	g(x)	g'(x)		x	f(x)	f'(x)	g(x)	g'(x)	
-6	-2	-16	-2	7		1	5	-2	5	0	
-5	-3	-14	-1	6		2	4	0	6	-1	
-4	-4	-12	0	5		3	3	2	7	-2	
-3	-5	-10	1	4		4	2	4	-6	-3	
-2	-6	-8	2	3		5	1	6	-5	-4	
-1	7	-6	3	2		6	0	8	-4	-5	
0	6	-4	4	1		7	-1	10	-3	-6	

No3 : k = 6										
x	-8	-7	-6	-5	-4	-3	-2	-1	0	
g(x)	1	2	3	4	5	6	7	8	9	
g'(x)	6	5	4	3	2	1	0	-1	-2	

x	1	2	3	4	5	6	7	8	9	
g(x)	-8	-7	-6	-5	-4	-3	-2	-1	0	
g'(x)	-3	-4	-5	-6	-7	-8	-9	-10	-11	

$$No04 = \left[x(t) = \frac{4t^2}{2+t^2}, P(x) = 2\sqrt{x} - 9, k = 7 \right]$$

[illegible]