

Opgave	Differentieer en herleid	Kleur	Nummer
1	$f(x) = -2(2x + 1)^4$		
2	$g(x) = -\frac{6}{(x^2 + 3x)^3}$		
3	$h(x) = \frac{1}{\sqrt{4x - 1}}$		
4	$f(x) = \frac{1}{(3x - 2)^2}$		
5	$g(x) = (x^2 + 3)\sqrt{x^2 + 3}$		
6	$h(x) = \sqrt[3]{x^3 + 3x}$		
7	$k(x) = \sqrt{2x^2 + 4x}$		
8	$f(x) = 5\sqrt{2x^4 + x^2} + 4x^2$		
9	$k(x) = \frac{1}{(4 - x)\sqrt{4 - x}}$		
10	$g(x) = \frac{x^2 + 4}{\sqrt{x^2 + 4}}$		

Opgave	Differentieer en herleid	Kleur	Nummer
1	$f(x) = -2(2x + 1)^4$		
2	$g(x) = -\frac{6}{(x^2 + 3x)^3}$		
3	$h(x) = \frac{1}{\sqrt{4x - 1}}$		
4	$f(x) = \frac{1}{(3x - 2)^2}$		
5	$g(x) = (x^2 + 3)\sqrt{x^2 + 3}$		
6	$h(x) = \sqrt[3]{x^3 + 3x}$		
7	$k(x) = \sqrt{2x^2 + 4x}$		
8	$f(x) = 5\sqrt{2x^4 + x^2} + 4x^2$		
9	$k(x) = \frac{1}{(4 - x)\sqrt{4 - x}}$		
10	$g(x) = \frac{x^2 + 4}{\sqrt{x^2 + 4}}$		

Antwoordblad

Opgave	Differentieer en herleid	Kleur	Nummer	Antwoord
1	$f(x) = -2(2x + 1)^4$		5	$f'(x) = -16(2x + 1)^3$
2	$g(x) = -\frac{6}{(x^2 + 3x)^3}$		3	$g'(x) = \frac{18(2x + 3)}{(x^2 + 3x)^4}$
3	$h(x) = \frac{1}{\sqrt{4x - 1}}$		1	$h'(x) = \frac{-2}{(4x - 1)\sqrt{4x - 1}}$
4	$f(x) = \frac{1}{(3x - 2)^2}$		12	$f'(x) = \frac{-6}{(3x - 2)^3}$
5	$g(x) = (x^2 + 3)\sqrt{x^2 + 3}$		7	$g'(x) = 3x\sqrt{x^2 + 3}$
6	$h(x) = \sqrt[3]{x^3 + 3x}$		6	$h'(x) = \frac{x^2 + 1}{\sqrt[3]{(x^3 + 3x)^2}}$
7	$k(x) = \sqrt{2x^2 + 4x}$		10	$k'(x) = \frac{2x + 2}{\sqrt{2x^2 + 4x}}$
8	$f(x) = 5\sqrt{2x^4 + x^2} + 4x^2$		11	$f'(x) = \frac{5(4x^3 + x)}{\sqrt{2x^4 + x^2}} + 8x$
9	$k(x) = \frac{1}{(4 - x)\sqrt{4 - x}}$		20	$k'(x) = \frac{3}{2(4 - x)^2\sqrt{4 - x}}$
10	$g(x) = \frac{x^2 + 4}{\sqrt{x^2 + 4}}$		2	$g'(x) = \frac{x}{\sqrt{x^2 + 4}}$

4	4	4	4	9	9	9	9	9	9	9
4	4	4	4	13	20	20	20	9	9	9
13	13	13	13	20	20	5	20	7	7	9
13	13	13	13	20	20	20	20	7	6	9
15	15	15	15	20	20	16	16	6	6	9
15	15	15	15	15	2	2	16	6	9	9
15	15	15	15	15	2	2	2	17	17	17
8	8	8	8	2	2	2	2	2	17	17
8	8	8	2	2	2	2	2	2	17	17
8	8	3	3	3	3	3	3	16	16	16
8	3	3	3	3	3	3	4	4	4	4
8	3	3	4	12	4	11	4	4	4	4
10	3	10	10	12	10	11	10	10	10	10
1	1	1	1	12	1	11	1	1	1	1

4	4	4	4	9	9	9	9	9	9	9
4	4	4	4	13	20	20	20	9	9	9
13	13	13	13	20	20	5	20	7	7	9
13	13	13	13	20	20	20	20	7	6	9
15	15	15	15	20	20	16	16	6	6	9
15	15	15	15	15	2	2	16	6	9	9
15	15	15	15	15	2	2	2	17	17	17
8	8	8	8	2	2	2	2	2	17	17
8	8	8	2	2	2	2	2	2	17	17
8	8	3	3	3	3	3	3	16	16	16
8	3	3	3	3	3	3	4	4	4	4
8	3	3	4	12	4	11	4	4	4	4
10	3	10	10	12	10	11	10	10	10	10
1	1	1	1	12	1	11	1	1	1	1

4	4	4	4	9	9	9	9	9	9	9
4	4	4	4	13	20	20	20	9	9	9
13	13	13	13	20	20	5	20	7	7	9
13	13	13	13	20	20	20	20	7	6	9
15	15	15	15	20	20	16	16	6	6	9
15	15	15	15	15	2	2	16	6	9	9
15	15	15	15	15	2	2	2	17	17	17
8	8	8	8	2	2	2	2	2	17	17
8	8	8	2	2	2	2	2	2	17	17
8	8	3	3	3	3	3	3	16	16	16
8	3	3	3	3	3	3	4	4	4	4
8	3	3	4	12	4	11	4	4	4	4
10	3	10	10	12	10	11	10	10	10	10
1	1	1	1	12	1	11	1	1	1	1