

| Opgave | Bereken de afgeleide van                      | Kleur | Nummer |
|--------|-----------------------------------------------|-------|--------|
| 1      | $f(x) = (2x - 7)(8 + x)$                      |       |        |
| 2      | $g(p) = -12p^2 + 30p$                         |       |        |
| 3      | $V(t) = 100 - (t^2 - 6t)$                     |       |        |
| 4      | $f(x) = 3x - 2(x^2 + 1)$                      |       |        |
| 5      | $P(q) = 0,05q^2 - 200q$                       |       |        |
| 6      | $g(x) = 3(2x - 3)^2$                          |       |        |
| 7      | $f(x) = (3x + 6)^2$                           |       |        |
| 8      | $h(x) = 5(x - 3)^2 + 5(x - 1) + 8$            |       |        |
| 9      | $h(a) = 50 - \left(\frac{1}{2}a - 4\right)^2$ |       |        |
| 10     | $k(x) = -3(x - 1)(5 - 2x) - 8(x - 7)$         |       |        |

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# Uitwerkingen

| Opgave | Bereken de afgeleide van                      | Antwoord                    | Kleur | Nr |
|--------|-----------------------------------------------|-----------------------------|-------|----|
| 1      | $f(x) = (2x - 7)(8 + x)$                      | $f'(x) = 4x + 9$            |       | 1  |
| 2      | $g(p) = -12p^2 + 30p$                         | $g'(p) = -24p + 30$         |       | 7  |
| 3      | $V(t) = 100 - (t^2 - 6t)$                     | $V'(t) = -2t + 6$           |       | 5  |
| 4      | $f(x) = 3x - 2(x^2 + 1)$                      | $f'(x) = -4x + 3$           |       | 3  |
| 5      | $P(q) = 0,05q^2 - 200q$                       | $P'(q) = 0,1q - 200$        |       | 9  |
| 6      | $g(x) = 3(2x - 3)^2$                          | $g'(x) = 24x - 36$          |       | 4  |
| 7      | $f(x) = (3x + 6)^2$                           | $f'(x) = 18x + 36$          |       | 12 |
| 8      | $h(x) = 5(x - 3)^2 + 5(x - 1) + 8$            | $h'(x) = 10x - 25$          |       | 2  |
| 9      | $h(a) = 50 - \left(\frac{1}{2}a - 4\right)^2$ | $h'(a) = -\frac{1}{2}a + 4$ |       | 20 |
| 10     | $k(x) = -3(x - 1)(5 - 2x) - 8(x - 7)$         | $k'(x) = 12x - 29$          |       | 6  |

[illegible]

