



Drukbasre assessering CAMI Wiskunde: Graad 8

Substitusie

1. Find the value of the expressions using substitution.

1.1 $p^2 - p + 2$ for $p = -2$

1.2 $-p-r+9$ for $p = 4$ and $r = -1$

1.3 $7m + 3p + 4$ for $m = 2$ and $p = 3$

1.4 $-t^2 + 2ty - y^2$ for $t = -5$ and $y = 2$

1.5 $m^2 - 3m$ for $m = -3$

1.6 $-(m + t) + m^2$ for $m = 9$ and $t = 6$

1.7 $2(f + 6r) - f^2$ for $f = 7$ and $r = 8$

1.8 $(-x + y) + xy$ for $x = 1$ and $y = 4$

1.9 $-5t + 3$ for $t = -5$

1.10 $-6t + 9$ for $t = \frac{1}{8}$



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MEMO

[4.6.5.1; 4.6.5.2]

1.1 $p^2 - p + 2 = (-2)^2 - (-2) + 2 = 4 + 2 + 2 = 8$

1.2 $-p-r+9 = -(4) - (-1) + 9 = -4 + 1 + 9 = 6$

1.3 $7m + 3p + 4 = 7(2) + 3(3) + 4 = 14 + 9 + 4 = 27$

1.4 $-t^2 + 2ty - y^2 = -(-5)^2 + 2(-5)(2) - (2)^2 = -25 - 20 - 4 = -49$

1.5 $m^2 - 3m = (-3)^2 - 3(-3) = 9 + 9 = 18$

1.6 $-(m + t) + m^2 = -(9 + 6) + (9)^2 = -15 + 81 = 66$

1.7 $2(f + 6r) - f^2 = 2(7 + 6(8)) - (7)^2 = 2(55) - 49 = 61$

1.8 $(-x + y) + xy = (-1 + 4) + (1)(4) = 3 + 4 = 7$

1.9 $-5t + 3 = -5(-5) + 3 = 25 + 3 = 28$

1.10 $-6t + 9 = -6\left(\frac{1}{8}\right) + 9 = -\frac{3}{4} + 9 = 8\frac{1}{4}$