

Mensualité servie par la rente

Symboles

c : capital initial

i : taux annuel moyen; par exemple, 1.5 % s'écrit $i = 0.015$

f : frais annuels

a : mensualité servie

Formules de la mensualité selon la durée du service de la rente

Durée 1 an :

$$a = (2 * (c - f + c * i)) / (24 + 11 * i)$$

Durée 2 ans :

$$a = (2 * (c * (1 + i)^2 - f * (2 + i))) / ((2 + i) * (24 + 11 * i))$$

Durée 3 ans :

$$a = (2 * (c * (1 + i)^3 - f * (3 + i * (3 + i)))) / ((24 + 11 * i) * (3 + i * (3 + i)))$$

Durée 4 ans :

$$a = (2 * (c * (1 + i)^4 - f * (2 + i) * (2 + i * (2 + i)))) / ((2 + i) * (24 + 11 * i) * (2 + i * (2 + i)))$$

Durée 5 ans :

$$a = (2 * (c * (1 + i)^5 - f * (5 + i * (10 + i * (10 + i * (5 + i)))))) / ((24 + 11 * i) * (5 + i * (10 + i * (10 + i * (5 + i))))))$$

Durée 6 ans :

$$a = (2 * (c * (1 + i)^6 - f * (2 + i) * (1 + i + i^2) * (3 + i * (3 + i)))) / ((2 + i) * (24 + 11 * i) * (1 + i + i^2) * (3 + i * (3 + i)))$$

Durée 7 ans :

$$a = (2 * (c * (1 + i)^7 - f * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i)))))))) / ((24 + 11 * i) * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i))))))))$$

Durée 8 ans :

$$a = (2 * (c * (1 + i)^8 - f * (2 + i) * (2 + i * (2 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i)))))) / ((2 + i) * (24 + 11 * i) * (2 + i * (2 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i))))$$

Durée 9 ans :

$$a = (-2 * (-c * (1 + i)^9) + f * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i)))))) / ((24 + 11 * i) * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i))))))$$

Durée 10 ans :

$$a = \frac{-2 * (-c * (1 + i)^{10} + f * (2 + i) * (1 + i * (1 + i) * (2 + i * (2 + i))) * (5 + i * (10 + i * (10 + i * (5 + i))))))}{((2 + i) * (24 + 11 * i) * (1 + i * (1 + i) * (2 + i * (2 + i))) * (5 + i * (10 + i * (10 + i * (5 + i))))))}$$

Durée 11 ans :

$$a = \frac{2 * (c * (1 + i)^{11} - f * (11 + i * (55 + i * (165 + i * (330 + i * (462 + i * (462 + i * (330 + i * (165 + i * (55 + i * (11 + i))))))))))}}{((24 + 11 * i) * (11 + i * (55 + i * (165 + i * (330 + i * (462 + i * (462 + i * (330 + i * (165 + i * (55 + i * (11 + i))))))))))}}$$

Durée 12 ans :

$$a = \frac{-2 * (-c * (1 + i)^{12} + f * (2 + i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i)))}{((2 + i) * (24 + 11 * i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i)))}$$

Durée 13 ans :

$$a = \frac{2 * (c * (1 + i)^{13} - f * (13 + i * (78 + i * (286 + i * (715 + i * (1287 + i * (1716 + i * (1716 + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i))))))))))}}{((24 + 11 * i) * (13 + i * (78 + i * (286 + i * (715 + i * (1287 + i * (1716 + i * (1716 + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i))))))))))}}$$

Durée 14 ans :

$$a = \frac{-2 * (-c * (1 + i)^{14} + f * (2 + i) * (1 + i * (1 + i) * (1 + i + i^2) * (3 + i * (3 + i))) * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i))))))}}{((2 + i) * (24 + 11 * i) * (1 + i * (1 + i) * (1 + i + i^2) * (3 + i * (3 + i))) * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i))))))}}$$

Durée 15 ans :

$$a = \frac{-2 * (-c * (1 + i)^{15} + f * (3 + i * (3 + i)) * (1 + i * (1 + i) * (2 + i) * (1 + i * (1 + i)^2 * (2 + i * (2 + i))) * (5 + i * (10 + i * (10 + i * (5 + i))))))}{((24 + 11 * i) * (3 + i * (3 + i)) * (1 + i * (1 + i) * (2 + i) * (1 + i * (1 + i)^2 * (2 + i * (2 + i))) * (5 + i * (10 + i * (10 + i * (5 + i))))}}$$

Durée 16 ans :

$$a = \frac{-2 * (-c * (1 + i)^{16} + f * (2 + i) * (2 + i * (2 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i))) * (2 + i * (2 + i) * (2 + i * (2 + i))))}{((2 + i) * (24 + 11 * i) * (2 + i * (2 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i))) * (2 + i * (2 + i) * (2 + i * (2 + i))))}}$$

Durée 17 ans :

$$a = (2 * (c * (1 + i)^{17} - f * (17 + i * (136 + i * (680 + i * (2380 + i * (6188 + i * (12376 + i * (19448 + i * (24310 + i * (24310 + i * (19448 + i * (12376 + i * (6188 + i * (2380 + i * (680 + i * (136 + i * (17 + i)))))))))))))))))) / ((24 + 11 * i) * (17 + i * (136 + i * (680 + i * (2380 + i * (6188 + i * (12376 + i * (19448 + i * (24310 + i * (24310 + i * (19448 + i * (12376 + i * (6188 + i * (2380 + i * (680 + i * (136 + i * (17 + i))))))))))))))))))$$

Durée 18 ans :

$$a = (-2 * (-c * (1 + i)^{18} + f * (2 + i) * (1 + i + i^2) * (3 + i * (3 + i)) * (1 + i * (1 + i)^3 * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i)))))) / ((2 + i) * (24 + 11 * i) * (1 + i + i^2) * (3 + i * (3 + i)) * (1 + i * (1 + i)^3 * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))))$$

Durée 19 ans :

$$a = (2 * (c * (1 + i)^{19} - f * (19 + i * (171 + i * (969 + i * (3876 + i * (11628 + i * (27132 + i * (50388 + i * (75582 + i * (92378 + i * (92378 + i * (75582 + i * (50388 + i * (27132 + i * (11628 + i * (3876 + i * (969 + i * (171 + i * (19 + i)))))))))))))))))) / ((24 + 11 * i) * (19 + i * (171 + i * (969 + i * (3876 + i * (11628 + i * (27132 + i * (50388 + i * (75582 + i * (92378 + i * (92378 + i * (75582 + i * (50388 + i * (27132 + i * (11628 + i * (3876 + i * (969 + i * (171 + i * (19 + i))))))))))))))))))$$

Durée 20 ans :

$$a = (-2 * (-c * (1 + i)^{20} + f * (2 + i) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i) * (2 + i * (2 + i) * (2 + i * (2 + i)))) * (5 + i * (10 + i * (10 + i * (5 + i)))))) / ((2 + i) * (24 + 11 * i) * (2 + i * (2 + i)) * (1 + i * (1 + i) * (2 + i * (2 + i))) * (1 + i * (1 + i)^2 * (2 + i) * (2 + i * (2 + i) * (2 + i * (2 + i)))) * (5 + i * (10 + i * (10 + i * (5 + i))))$$

Durée 21 ans :

$$a = (-2 * (-c * (1 + i)^{21} + f * (3 + i * (3 + i)) * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i)))))) * (1 + i * (1 + i) * (2 + i) * (1 + i + i^2) * (3 + i * (8 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i)))))))))) / ((24 + 11 * i) * (3 + i * (3 + i)) * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i)))))) * (1 + i * (1 + i) * (2 + i) * (1 + i + i^2) * (3 + i * (8 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i))))))))$$

Durée 22 ans :

$$a = (-2 * (-c * (1 + i)^{22} + f * (2 + i) * (1 + i * (1 + i) * (1 + i * (1 + i) * (2 + i * (2 + i))) * (5 + i * (10 + i * (10 + i * (5 + i)))) * (11 + i * (55 + i * (165 + i * (330 + i * (462 + i * (462 + i * (330 + i * (165 + i * (55 + i * (11 + i)))))))))))))) / ((2 + i) * (24 + 11 * i) * (1 + i * (1 + i) * (1 + i * (1 + i) * (2 + i * (2 + i))) * (5 + i * (10 + i * (10 + i * (5 + i)))) * (11 + i * (55 + i * (165 + i * (330 + i * (462 + i * (462 + i * (330 + i * (165 + i * (55 + i * (11 + i))))))))))))$$

Durée 23 ans :

$$a = (2 * (c * (1 + i)^{23} - f * (23 + i * (253 + i * (1771 + i * (8855 + i * (33649 + i * (100947 + i * (245157 + i * (490314 + i * (817190 + i * (1144066 + i * (1352078 + i * (1352078 + i * (1144066 + i * (817190 + i * (490314 + i * (245157 + i * (100947 + i * (33649 + i * (8855 + i * (1771 + i * (253 + i * (23 + i))))))))))))))))))))) / (((24 + 11 * i) * (23 + i * (253 + i * (1771 + i * (8855 + i * (33649 + i * (100947 + i * (245157 + i * (490314 + i * (817190 + i * (1144066 + i * (1352078 + i * (1352078 + i * (817190 + i * (490314 + i * (245157 + i * (100947 + i * (33649 + i * (8855 + i * (1771 + i * (253 + i * (23 + i)))))))))))))))))))))$$

Durée 24 ans :

$$a = (-2 * (-c * (1 + i)^{24} + f * (2 + i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i))) * (1 + i * (1 + i)^4 * (2 + i) * (2 + i * (2 + i)))) / ((2 + i) * (24 + 11 * i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i) * (3 + i * (3 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i))) * (1 + i * (1 + i)^4 * (2 + i) * (2 + i * (2 + i))))$$

Durée 25 ans :

$$a = (-2 * (-c * (1 + i)^{25} + f * (5 + i * (10 + i * (10 + i * (5 + i)))) * (5 + i * (5 + i * (10 + i * (10 + i * (5 + i)))) * (10 + i * (5 + i * (10 + i * (10 + i * (5 + i)))) * (10 + i * (5 + i * (10 + i * (10 + i * (5 + i)))) * (5 + i * (5 + i * (10 + i * (10 + i * (5 + i))))))))) / (((24 + 11 * i) * (5 + i * (10 + i * (10 + i * (5 + i)))) * (5 + i * (5 + i * (10 + i * (10 + i * (5 + i)))) * (10 + i * (5 + i * (10 + i * (10 + i * (5 + i)))) * (10 + i * (5 + i * (10 + i * (10 + i * (5 + i)))) * (5 + i * (5 + i * (10 + i * (10 + i * (5 + i)))))))))$$

Durée 26 ans :

$$a = (-2 * (-c * (1 + i)^{26} + f * (2 + i) * (1 + i * (1 + i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i))) * (13 + i * (78 + i * (286 + i * (715 + i * (1287 + i * (1716 + i * (1716 + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i)))))))))))))) / (((2 + i) * (24 + 11 * i) * (1 + i * (1 + i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i))) * (13 + i * (78 + i * (286 + i * (715 + i * (1287 + i * (1716 + i * (1716 + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i))))))))))))))$$

Durée 27 ans :

$$a = (-2 * (-c * (1 + i)^{27} + f * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i)))))) / (((24 + 11 * i) * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i)) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))))))$$

Durée 28 ans :

$$a = (-2 * (- (c * (1 + i)^{28}) + f * (2 + i) * (2 + i * (2 + i)) * (1 + i * (1 + i)) * (1 + i + i^2) * (3 + i * (3 + i))) * (1 + i * (1 + i)^2 * (2 + i) * (1 + i + i^2) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i))) * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i)))))))))) / (((2 + i) * (24 + 11 * i) * (2 + i * (2 + i)) * (1 + i * (1 + i)) * (1 + i + i^2) * (3 + i * (3 + i))) * (1 + i * (1 + i)^2 * (2 + i) * (1 + i + i^2) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i))) * (7 + i * (21 + i * (35 + i * (35 + i * (21 + i * (7 + i))))))))))$$

Durée 29 ans :

$$a = (2 * (c * (1 + i)^{29} - f * (29 + i * (406 + i * (3654 + i * (23751 + i * (118755 + i * (475020 + i * (1560780 + i * (4292145 + i * (10015005 + i * (20030010 + i * (34597290 + i * (51895935 + i * (67863915 + i * (77558760 + i * (77558760 + i * (67863915 + i * (51895935 + i * (34597290 + i * (20030010 + i * (10015005 + i * (4292145 + i * (1560780 + i * (475020 + i * (118755 + i * (23751 + i * (3654 + i * (406 + i * (29 + i)))))))))))))))))))))) / (((24 + 11 * i) * (29 + i * (406 + i * (3654 + i * (23751 + i * (118755 + i * (475020 + i * (1560780 + i * (4292145 + i * (10015005 + i * (20030010 + i * (34597290 + i * (51895935 + i * (67863915 + i * (77558760 + i * (77558760 + i * (67863915 + i * (51895935 + i * (34597290 + i * (20030010 + i * (10015005 + i * (4292145 + i * (1560780 + i * (475020 + i * (118755 + i * (23751 + i * (3654 + i * (406 + i * (29 + i))))))))))))))))))))))$$

Durée 30 ans :

$$a = (-2 * (- (c * (1 + i)^{30}) + f * (2 + i) * (1 + i + i^2) * (3 + i * (3 + i)) * (1 + i * (1 + i)) * (2 + i * (2 + i))) * (1 + i * (1 + i)) * (2 + i) * (1 + i * (1 + i)^2) * (2 + i * (2 + i))) * (1 + i * (1 + i) * (2 + i) * (2 + i * (2 + i)) * (1 + i * (5 + i * (4 + i)))) * (5 + i * (10 + i * (10 + i * (5 + i)))))) / (((2 + i) * (24 + 11 * i) * (1 + i + i^2) * (3 + i * (3 + i)) * (1 + i * (1 + i)) * (2 + i * (2 + i))) * (1 + i * (1 + i)) * (2 + i) * (1 + i * (1 + i)^2) * (2 + i * (2 + i))) * (1 + i * (1 + i)) * (2 + i) * (2 + i * (2 + i)) * (1 + i * (5 + i * (4 + i)))) * (5 + i * (10 + i * (10 + i * (5 + i))))))$$

Durée 31 ans :

$$a = (2 * (c * (1 + i)^{31} - f * (31 + i * (465 + i * (4495 + i * (31465 + i * (169911 + i * (736281 + i * (2629575 + i * (7888725 + i * (20160075 + i * (44352165 + i * (84672315 + i * (141120525 + i * (206253075 + i * (265182525 + i * (300540195 + i * (300540195 + i * (265182525 + i * (206253075 + i * (141120525 + i * (84672315 + i * (44352165 + i * (20160075 + i * (7888725 + i * (2629575 + i * (736281 + i * (169911 + i * (31465 + i * (4495 + i * (465 + i * (31 + i)))))))))))))))))))))) / (((24 + 11 * i) * (31 + i * (465 + i * (4495 + i * (31465 + i * (169911 + i * (736281 + i * (2629575 + i * (7888725 + i * (20160075 + i * (44352165 + i * (84672315 + i * (141120525 + i * (206253075 + i * (265182525 + i * (300540195 + i * (300540195 + i * (265182525 + i * (206253075 + i * (141120525 + i * (84672315 + i * (44352165 + i * (20160075 + i * (7888725 + i * (2629575 + i * (736281 + i * (169911 + i * (31465 + i * (4495 + i * (465 + i * (31 + i))))))))))))))))))))))$$

Durée 36 ans :

$$a = (-2 * (-c * (1 + i)^{36} + f * (2 + i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i)) * (1 + i * (1 + i)^3 * (3 + i * (3 + i))) * (1 + i * (1 + i)^6 * (2 + i) * (1 + i + i^2) * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i)))))) / (((2 + i) * (24 + 11 * i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (3 + i)) * (1 + i * (1 + i)^3 * (3 + i * (3 + i))) * (1 + i * (1 + i)^6 * (2 + i) * (1 + i + i^2) * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))))))$$

Durée 37 ans :

$$a = (2 * (c * (1 + i)^{37} - f * (37 + i * (666 + i * (7770 + i * (66045 + i * (435897 + i * (2324784 + i * (10295472 + i * (38608020 + i * (124403620 + i * (348330136 + i * (854992152 + i * (1852482996 + i * (3562467300 + i * (6107086800 + i * (9364199760 + i * (12875774670 + i * (15905368710 + i * (17672631900 + i * (17672631900 + i * (15905368710 + i * (12875774670 + i * (9364199760 + i * (6107086800 + i * (3562467300 + i * (1852482996 + i * (854992152 + i * (348330136 + i * (124403620 + i * (38608020 + i * (10295472 + i * (2324784 + i * (435897 + i * (66045 + i * (7770 + i * (666 + i * (37 + i)) / (((24 + 11 * i) * (37 + i * (666 + i * (7770 + i * (66045 + i * (435897 + i * (2324784 + i * (10295472 + i * (38608020 + i * (124403620 + i * (348330136 + i * (854992152 + i * (1852482996 + i * (3562467300 + i * (6107086800 + i * (9364199760 + i * (12875774670 + i * (15905368710 + i * (17672631900 + i * (17672631900 + i * (15905368710 + i * (12875774670 + i * (9364199760 + i * (6107086800 + i * (3562467300 + i * (1852482996 + i * (854992152 + i * (348330136 + i * (124403620 + i * (38608020 + i * (10295472 + i * (2324784 + i * (435897 + i * (66045 + i * (7770 + i * (666 + i * (37 + i))$$

Durée 38 ans :

$$a = (-2 * (-c * (1 + i)^{38} + f * (2 + i) * (1 + i * (1 + i)) * (1 + i + i^2) * (3 + i * (3 + i)) * (1 + i * (1 + i)^3 * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i)))) * (19 + i * (171 + i * (969 + i * (3876 + i * (11628 + i * (27132 + i * (50388 + i * (75582 + i * (92378 + i * (92378 + i * (75582 + i * (50388 + i * (27132 + i * (11628 + i * (3876 + i * (969 + i * (171 + i * (19 + i)))))))))))))))))))))))))) / (((2 + i) * (24 + 11 * i) * (1 + i * (1 + i)) * (1 + i + i^2) * (3 + i * (3 + i)) * (1 + i * (1 + i)^3 * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i))) * (3 + i * (3 + i * (3 + i)))) * (19 + i * (171 + i * (969 + i * (3876 + i * (11628 + i * (27132 + i * (50388 + i * (75582 + i * (92378 + i * (92378 + i * (75582 + i * (50388 + i * (27132 + i * (11628 + i * (3876 + i * (969 + i * (171 + i * (19 + i))))))))))))))))))))))$$

Durée 39 ans :

$$\begin{aligned}
 a = & (-2 * (- (c * (1 + i)^{39}) + f * (3 + i * (3 + i)) * (13 + i * (78 + i * (286 + i * (715 + i * (1287 \\
 & + i * (1716 + i * (1716 + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i)))))))))) \\
 & * (1 + i * (1 + i)) * (2 + i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 \\
 & * (2 + i)) * (3 + i * (14 + i * (78 + i * (286 + i * (715 + i * (1287 + i * (1716 \\
 & + i * (1716 + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i)))))))))) \\
 & / ((24 + 11 * i) * (3 + i * (3 + i)) * (13 + i * (78 + i * (286 + i * (715 + i * (1287 + i * (1716 \\
 & + i * (1716 + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i)))))))))) * (1 + i * (1 + i) \\
 & * (2 + i) * (1 + i + i^2) * (2 + i * (2 + i)) * (1 + i * (1 + i)^2 * (2 + i)) * (3 + i * (14 \\
 & + i * (78 + i * (286 + i * (715 + i * (1287 + i * (1716 + i * (1716 \\
 & + i * (1287 + i * (715 + i * (286 + i * (78 + i * (13 + i))))))))))
 \end{aligned}$$

Durée 40 ans :

$$\begin{aligned}
 a = & (-2 * (- (c * (1 + i)^{40}) + f * (2 + i) * (2 + i * (2 + i)) * (1 + i * (1 + i)) * (2 + i * (2 + i)) \\
 & * (2 + i * (2 + i) * (2 + i * (2 + i))) * (1 + i * (1 + i)^2 * (2 + i) * (2 + i * (2 + i) * (2 \\
 & + i * (2 + i)))) * (5 + i * (10 + i * (10 + i * (5 + i)))) * (1 + i * (1 + i)^4 * (2 + i) \\
 & * (2 + i * (2 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i)))) \\
 & / ((2 + i) * (24 + 11 * i) * (2 + i * (2 + i)) * (1 + i * (1 + i)) * (2 + i * (2 + i)) * (2 + i * (2 + i) \\
 & * (2 + i * (2 + i))) * (1 + i * (1 + i)^2 * (2 + i) * (2 + i * (2 + i) * (2 + i * (2 + i)))) \\
 & * (5 + i * (10 + i * (10 + i * (5 + i)))) * (1 + i * (1 + i)^4 * (2 + i) * (2 + i * (2 + i)) \\
 & * (2 + i * (2 + i) * (2 + i * (2 + i)) * (2 + i * (2 + i) * (2 + i * (2 + i))))
 \end{aligned}$$

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www.deleze.name/marcel/culture/taux_composes/rentes/mensualites.html