Example (v): Weekly payments (long first period)

Amount advanced (A) = \$500. Payment (P) = \$17.60.
Number of payments (n) = 30.
Unit-period = 1 week. Unit-periods per year (w) = 52.
Advance, 3-20-78. First payment, 4-21-78.
From 3-24-78 through 4-21-78 = 4 unit-periods. (t = 4)
From 3-20-78 through 3-24-78 = 4 days. (f = 4/7)
Annual percentage rate (I) = wi = .1496 = 14.96 %

(2) Single advance transaction, with an odd first payment, with or without an odd first period, and otherwise regular. The general equation in paragraph (b)(8) of this section can be put in the following special form for this type of transaction:

$$A = \frac{1}{(1+fi)(1+i)^{t}} \left[P_1 + \frac{P\,\ddot{a}_{\overline{n-1}|}}{(1+i)} \right]$$

Example (i): Monthly payments (regular first period and irregular first payment)

Amount advanced (A) = \$5000. First payment $\left(P_1\right)$ = \$250.
Regular payment (P) = \$230. Number of payments (n) = 24.
Unit-period = 1 month. Unit-periods per year (w) = 12.
Advance, 1-10-78. First payment, 2-10-78.
From 1-10-78 through 2-10-78 = 1 unit-period. (t = 1; f = 0)
Annual percentage rate (I) = wi = .1008 = 10.08%

Example (ii): Payments every 4 weeks (long first period and irregular first payment)

Amount advanced (A) = \$400. First payment $\left(P_1\right)$ = \$39.50.
Regular payment (P) = \$38.31. Number of payments (n) = 12.
Unit-period = 4 weeks. Unit-periods per year (w) = 52/4 = 13.
Advance, 3-18-78. First payment, 4-20-78.
From 3-23-78 through 4-20-78 = 1 unit-period. (t = 1)
From 3-18-78 through 3-23-78 = 5 days. (f = 5/28)
Annual percentage rate (I) = wi = .2850 = 28.50%

(3) Single advance transaction, with an odd final payment, with or without an odd first period, and otherwise regular. The general equation in paragraph (b)(8) of this section can be put in the following special form for this type of transaction:

$$A = \frac{1}{(1+fi)(1+i)^{t}} \left[P\,\ddot{a}_{\overline{n-1}|} + \frac{Pn}{(1+i)^{n-1}} \right]$$