

```

Clear[f, a]
(*Declaring the function written by Amy*)
f[{x_, y_}] :=
  RecurrenceTable[
    {a[n + 1] == a[n] +  $\frac{x}{100 * 12}$  a[n] - 500, a[0] == y},
    a,
    {n, 0, 60}
  ] // N

Clear[f1, a]
(*Declaring the function written by Richard*)
f1[{x_, y_}] :=
  RecurrenceTable[
    {a[n + 1] == a[n] E $\frac{x}{100 * 12}$  - 500, a[0] == y},
    a,
    {n, 0, 60}
  ] // N

Clear[APRandTotals]
(*Pairing the APR with the adjusted total costs*)
APRandTotals =
  Transpose[
    {
      {4.5, 4.38, 3.28, 4.4, 4.8, 3, 4.25, 4.3}, {14 200 - 500, 20 705 - 750,
        39 312 - 1000, 16 800 - 500, 22 955, 26 500, 16 500 - 900, 19 950 - 1000}
    }
  ];

Clear[AmyTable]
(*Mapping Amy's function over the paired values*)
AmyTable =
  Map[
    f,
    APRandTotals
  ];

Clear[RichardTable]
(*Mapping Richard's functions over the paired values*)
RichardTable =
  Map[
    f1,
    APRandTotals
  ];

```

Out[358]//TableForm=

	1	2	3	4	5	6	7
Fiesta	13 700.	13 251.4	12 801.1	12 349.1	11 895.4	11 440.	10 900.
Focus	19 955.	19 527.8	19 099.1	18 668.8	18 237.	17 803.5	17 375.
Volt	38 312.	37 916.7	37 520.4	37 122.9	36 724.4	36 324.8	35 926.
Cruz	16 300.	15 859.8	15 417.9	14 974.5	14 529.4	14 082.6	13 635.
Camry	22 955.	22 546.8	22 137.	21 725.6	21 312.5	20 897.7	20 483.
Camry Hybrid	26 500.	26 066.3	25 631.4	25 195.5	24 758.5	24 320.4	23 881.
Corolla	15 600.	15 155.3	14 708.9	14 261.	13 811.5	13 360.4	12 910.
Prius	18 950.	18 517.9	18 084.3	17 649.1	17 212.3	16 774.	16 335.

Out[359]//TableForm=

	1	2	3	4	5	6	7
Fiesta	13 700.	13 251.5	12 801.3	12 349.4	11 895.7	11 440.4	10 900.
Focus	19 955.	19 528.	19 099.4	18 669.2	18 237.5	17 804.2	17 375.
Volt	38 312.	37 916.9	37 520.6	37 123.3	36 724.9	36 325.5	35 926.
Cruz	16 300.	15 859.9	15 418.1	14 974.8	14 529.8	14 083.2	13 635.
Camry	22 955.	22 547.	22 137.4	21 726.1	21 313.2	20 898.6	20 483.
Camry Hybrid	26 500.	26 066.3	25 631.6	25 195.7	24 758.8	24 320.8	23 881.
Corolla	15 600.	15 155.3	14 709.1	14 261.3	13 811.9	13 360.9	12 910.
Prius	18 950.	18 518.	18 084.5	17 649.4	17 212.8	16 774.6	16 335.