

8.2 Simple Interest

$$I = Prt$$

$$A = P(1 + rt)$$

p.497: 20-29

8.3 Compound Interest

$$A = P \left( 1 + \frac{r}{n} \right)^{nt}$$

Effective Annual Yield

$$Y = \left( 1 + \frac{r}{n} \right)^n - 1$$

p.497-498:

31-33, 35, 36, 37, 38

8.4 Systematic Savings

$$A = \frac{P \left[ \left( 1 + \frac{r}{n} \right)^{nt} - 1 \right]}{\left( \frac{r}{n} \right)}$$

p.498: 40-42

8.5 Mortgages, Loans, & Amortization schedules.

$$PMT = \frac{P \left( \frac{r}{n} \right)}{\left[ 1 - \left( 1 + \frac{r}{n} \right)^{-nt} \right]}$$

p.498-499: 52, 55, 56