Compound Interest and the TVM Solver – Assignment

- 1. Use the TVM Solver to calculate the amount (Future Value) of the following investments:
 - a) \$1000 invested at 6% per annum compounded semi-annually for 5 years.
 - b) \$ 800 invested at 4.8% per annum compounded semi-annually for 3 years.
 - c) \$ 600 invested at 8% per annum compounded guarterly for 3 years.
 - d) \$1200 invested at 6.8% per annum compounded quarterly for 10 years.
 - e) \$2500 invested at 12% per annum compounded monthly for 4 years.
 - f) \$10 000 invested at 5.4% per annum compounded monthly for 8 years.

a)	N =	FV =	b)	N =	FV =
	l =	PY =		I =	PY =
	PV =	CY =		PV =	CY =
	PMT =	BEGIN		PMT =	BEGIN
c)	N =	FV =	d)	N =	FV =
	I =	PY =		l =	PY =
	PV =	CY =		PV =	CY =
	PMT =	BEGIN		PMT =	BEGIN
e)	N =	FV =	f)	N =	FV =
	l =	PY =		I =	PY =
	PV =	CY =		PV =	CY =
	PMT =	BEGIN		PMT =	BEGIN

- 2. Use the TVM Solver to determine the following times. Answer in years.
 - a) How long will it take an investment of \$1 000 to reach \$1 200 at 6.5% p.a. compounded monthly?
 - b) How long will it take for an investment of \$5 000 at 5.6% p.a. compounded quarterly to double in value?
 - c) How long will it take for an investment of \$10 000 at 9.5% p.a. compounded semi-annually to triple in value?
 - d) How long will it take for an investment of \$3 000 at 8.2% p.a. compounded annually to reach \$5000?

- 3. Use the TVM Solver to determine the original amount (Present Value) invested.
 - a) How much must be invested at 3.5% p.a. compounded semi-annually in order to have \$5000 after 8 years?
 - b) How much must be invested at 4.1% p.a. compounded bi-weekly in order to have \$2000 after 3 years?

FV = FV = a) N = b) N =I = PY = PY = I =PV = CY = PV = CY = PMT = **BEGIN** PMT = **BEGIN**