Samples Continuous compounding

- 1. Before Damien can marry Celeste, he must prove to her father that he can save the deposit for a house. He has \$800 to invest, his account pays 6.0 percent interest per annum, compounding continuously, and he needs to have a total of \$1920 before he can get married. He is currently 19 years old. At what age can he get married?
- 2. Before Damien can marry Celeste, he must prove to her father that he can save the deposit for a house. He has \$800 to invest, his account pays 5.0 percent interest per annum, compounding continuously, and he needs to have a total of \$2080 before he can get married. He is currently 17 years old. At what age can he get married?
- 3. Before Damien can marry Celeste, he must prove to her father that he can save the deposit for a house. He has \$1000 to invest, his account pays 6.0 percent interest per annum, compounding continuously, and he needs to have a total of \$1900 before he can get married. He is currently 13 years old. At what age can he get married?