HOMEWORK #4 ANSWERS

- (a) The present value of Option 1 is $\frac{12,000}{1.05} + \frac{12,000}{(1.05)^2} + \frac{12,000}{(1.05)^3} = 32,678.98$. The present value of Option 2 is $\frac{B}{(1+0.05)^3}$. Equating the two and solving for *B* we get that B = 37,830.
- **(b)** The present value of Option 2 is $\frac{C}{(1+0.05)^2}$. Equating this to 32,678.98 and solving gives C = 36,028.57.
- (c) The present value of Option 3 is $\frac{D}{(1+0.05)}$. Equating this to 32,678.98 and solving gives D = 34,312.93.
- (d) Obviously, E = 32,678.98.
- (e) Using the above calculations we have that Options 2, 4 and 5 are worse that Option 1 and Option 3 is better than Option 1. Thus you will choose Option 3.