

# Economy Quiz

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1

$$\text{let } FV = 3 \quad + \quad PV = 1$$

$$3 = 1(1+0.06)^N \Rightarrow \ln(3) = N \ln(1.06)$$

$$N = \frac{\ln(3)}{\ln(1.06)} = 18.854177 \text{ yrs or } 19 \text{ years}$$

2

$$X(1+0.05)' + 400(1+0.08)' + 100(1+0.04)' - 200$$

$$X(1.05) - 632 + 104$$

$$X = \frac{528}{1.05} = 502.85714$$

3

$$F = P(1+i)^N$$

$$F = 1000(1+0.045)^{10}$$

$$F = 1552.9694$$

4

$$F = P(1+i)^N$$

$$F = 2000(1+0.052)^{10}$$

$$F = 3040$$