



8% annually is better for 5 years

⑥ 8% annually is better for 5 years

⑤  $24\left(1 + \frac{0.06}{4}\right)^{4 \cdot 396} = \$419,200,859.600$

⑥ (a) \$108.24

⑤  $108.243216 = 100(1+x) \mid x = 8.24\%$

⑥ 107.9782

⑤ (a)  $50,000\left(1 + \frac{0.06}{12}\right)^{12} = 53083.89059$   
 $50,000(1+x) = 53083.89059$   
 $x = 6.167789\%$

⑥ (b)  $x\left(1 + \frac{0.06}{12}\right)^{12(18)} = 50,000$

\$17025.53

$$(12) (a) 50000 = X(1 + 0.065)^4$$

$$\boxed{\$38866.62}$$

$$(b) 50000 = X(1 + \frac{0.0625}{4})^{4 \cdot 4}$$

$$\boxed{\$3901.54}$$

The first one is better

(c) The lower present value is better

$$(13) 40000 = X(1 + 0.05)^6$$

$$\boxed{\$2984.86}$$

(16) (a) First Option

(b) Second

(c) 11.808 Years