Math 10
GmF
Monday Nov 27th

In class Assignment
Solutions

→ Quiz Sometime
this
week ☺

1.0. $A = P\left(1+\frac{r}{n}\right)^{nt}$ 12(5)

$= 2350\left(1+\frac{0.08}{12}\right)^{60}$

$= 2350(1+0.00666)^{60}$

$= 2350(1.48978651)$

$A = \$3501.00$

11. $A = P\left(1 + \frac{r}{n}\right)^{nt}$

$= 1850\left(1 + \frac{0.04}{4}\right)^{4(4)}$

$= \$2169.27$

12. $A = P\left(1 + \frac{r}{n}\right)^{nt}$

$A = 1400\left(1 + \frac{0.06}{2}\right)^{2(1.5)}$

$A = 1406(1.03)^3$

$A = 1529.82$

13. $$P = \frac{A}{\left(1 + \frac{r}{n}\right)^{nt}}$$

$$= \frac{5000}{\left(1 + 0.\frac{09}{2}\right)^{2(10)}}$$

$$P = \$2073.21$$

14.

$$P = \frac{A}{\left(1 + \frac{r}{n}\right)^{nt}}$$

$$= \frac{6620}{\left(1 + \frac{0.05}{12}\right)^{12(4)}}$$

$$= \frac{6620}{1.22}$$

$$P = \$5426.23$$

15. $A = P\left(1 + \frac{r}{n}\right)^{nt}$

$= 2750\left(1 + \frac{0.07}{2}\right)^{2(18)}$

$= 2750\left(1.035\right)^{36}$

$= 2750\left(3.45\right)$

$\boxed{A = \$9488.23}$

18. $A = \left(P + \frac{r}{n}\right)^{nt}$

you $= 4250\left(1 + \frac{0.05}{2}\right)^{2(5)}$

$= 4250(1.025)^{10}$

$= 5440.36$

Bank $A = P\left(1 + \frac{r}{n}\right)^{nt}$

$= 4250\left(1 + \frac{0.10}{1}\right)^{1(5)}$

$= 6844.67$

Bank Makes ← pays you

Gets → $6844.67 - 5440.36$

$\$1404.31$