

#19. Solve $s = \frac{n}{2}(a+L)$ for L .

$$\text{LCD} = 2$$

$$2s = n(a+L)$$

$$2s = na + nL$$

$$\underline{-nL = -nL}$$

$$2s - nL = na$$

$$\underline{-2s = -2s}$$

$$-nL = na - 2s$$

$$\frac{-nL}{-n} = \frac{na - 2s}{-n}$$

$$L = \frac{na - 2s}{-n}$$

$$= \frac{2s - na}{n}$$

#16. Solve $S = 2\pi r^2 + 2\pi r h$ for h . PE MDAS
SADM

$$\begin{array}{r} 2\pi r^2 + 2\pi r h = S \\ -2\pi r^2 \qquad \qquad = -2\pi r^2 \\ \hline \end{array}$$

$$2\pi r h = S - 2\pi r^2$$

$$h = \frac{S - 2\pi r^2}{2\pi r}$$

$$\frac{2\pi r h}{2\pi r} = \frac{S - 2\pi r^2}{2\pi r}$$

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

$$P = \$3500$$

$$r = 3\% = \frac{3}{100} = .03$$

$$t = 10 \text{ yrs}$$

$n = \#$ of periods per year

Find A , when $n = 1, 2, 4, 12, 365$

$A =$ Future Value

PEMDAS

§ 2.3 Practice a million

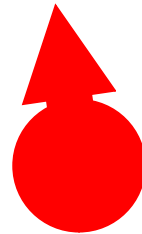
§ 2.3 #5 20,

$$n = 1?$$

$$A = 3500 \left(1 + \frac{.03}{1}\right)^{(1)(10)} \approx \$4703.71$$

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ln(.5)/5600
-1.23776282E-4
ln(.3)/Ans
9727.007327
3500*(1+.03/1)^1
*10
36050
```

← No! Need parentheses around the $(1)(10)$ in the exponent.



```
9727.007327
3500*(1+.03/1)^1
*10
36050
3500*(1+.03/1)^(
1*10)
4703.707328
```

Much better
 $\approx \$4,703.71$

```
4703.707328
3500*(1+.03/2)^(
2*10)
4713.992523
3500*(1+.03/4)^(
4*10)
4719.220143
```

$$n = 2: A \approx \$4713.99$$

$$n = 4: A \approx \$4719.22$$