The annual tuition at a four year college is expected to increase from $4500.00 to $5400.00 next year. What is the percentage increase?

\[
\text{Amount of Increase} = \left( \frac{\%}{\text{Increase}} \right) \cdot \left( \text{Annual Tuition} \right)
\]

\[
\begin{align*}
5400.00 & - 4500.00 \\
\text{Amount of Increase} & = 0.00
\end{align*}
\]
A person whose salary is $42,000.00 receives a 2% pay cut. What is the salary decrease and what is the new salary?

\[
\text{Amount of Decrease} = \left( \frac{\%}{\text{Decrease}} \right) \cdot \left( \text{Total Salary} \right)
\]
During a clearance sale a pair of shoes that originally sold for $89.95 is marked down to $53.97. What is the percent discount?

\[
\begin{align*}
\text{Amount of Discount} &= \left( \frac{\text{% Discount}}{\text{Original Price}} \right) \cdot \text{Original Price} \\
&= \frac{\text{Amount of Discount}}{\text{Original Price}} \cdot \text{Original Price} \\
&= \frac{89.95}{53.97} \cdot 35.98 \\
&= 0. = \% \\
\end{align*}
\]