

Ex4) Graph $y_{1}=\cos x$ and $y_{2}=-1$.
Find all real numbers $x$ such that $y_{1}=y_{2}$ in the interval $[-2 \pi, 2 \pi]$


Ex6) A company that produces snowboards, which are seasonal products, forecasts monthly sales for 1 year to be:

$$
S=74.5+43.75 \cos \frac{\pi t}{6}
$$

where $S$ is the sales in thousands of units and $t$ is the time in months, with $\mathrm{t}=1$ corresponding to January.
(a) Use a graphing utility to graph the sales function over the oneyear period.

(b) Use the graph in part (a) to determine the months of maximum and minimum sales. $)_{\eta}: 186 \Rightarrow \mathrm{Jn口f}_{n}$

$$
\mathrm{Max}_{10}: t=12 \Rightarrow D_{\mathrm{rCPMS}_{2}}
$$

