This is a small package that defines a user command for adding lines to the current (and facing page, if appropriate). This is intended to be used in the final typesetting process of a manuscript for running pages long or short in order to fit their material better (starting a paragraph on the next page, for example).

The `\addlines` command adds enough vertical space to the current text block to fit in one more line of text. An optional argument specifies the number of lines to add; negative numbers remove space, and fractional numbers are fine, too. For example:

\begin{itemize}
  \item `\addlines` adds one line to the current page height
  \item `\addlines[2]` adds two lines to the current page
  \item `\addlines[-1]` subtracts one line from the current page height
\end{itemize}

The command should be placed somewhere near the middle of the page that it is intending to affect. Too near the top and it may not be seen in time ($\LaTeX$’s page breaking routine is asynchronous).

For syntactic sugar, `\addline` is a synonym for `\addlines`, and `\removeline(s)` is the opposite of `\addlines`.

As alluded to in the introduction, for a double-sided document (e.g., if the class option `[twoside]` is in effect) extra height must be added to both pages on a spread for things to look good. If `\addlines` is called on an even page (i.e., a verso or left-side page) it adds the same space to its facing page. Conversely, on an odd page (i.e., a recto or right-side page) an error is produced, but the space is still added.

These errors can be suppressed by loading `addlines` with the `[draft]` package option. The option that indicates that errors should be shown is `[final]`; this is activated by default but could be overridden with a `[draft]` class option.

**Notes**

This command is a wrapper around the more basic command `\enlargethispage`. It uses the `changepage` package to check if the command is called on an even
page, and the afterpage package to add material to a facing odd page if necessary.

The changepage mechanism for detecting page number oddness may require more than a single \LaTeX compilation to stabilise, so false positives may occur. If memoir is used, its \texttt{\textbackslash strictpagechecktrue} command is executed. afterpage may conflict poorly with other packages that modify \LaTeX’s output routine (\textit{i.e.}, the algorithm used to chunk the document into discrete pages).

Uses $\varepsilon$-\TeX because I’m lazy.

**Example document**

\begin{verbatim}
\documentclass[twoside]{article}
\usepackage[a5paper,width=30em,lines=30]{geometry}
\usepackage{lipsum}
\usepackage{addlines}
\begin{document}
\lipsum[1-5]
\emph{Here is the command used correctly on an even page.} \
\addlines
\lipsum[6-15]
\emph{Here is the command used erroneously on an odd page.} \
\addlines
\lipsum[16-20]
\end{document}
\end{verbatim}

**Change history**

\textbf{0.1} Initial version implementing the basic commands.

\textbf{0.2} Switched from chngpage to changepage and added package options \texttt{[draft]} and \texttt{[final]}.

\textbf{0.2a} Remove \texttt{\textbackslash usepackage{etex}} for better compatibility with \LaTeX 2015.
addlines implementation

\ProvidesPackage{addlines} [2015/07/08 v0.2a Add/remove lines from a page]

Packages:
\RequirePackage{afterpage,changepage}

Option:
\newif\if@addlines@checkpage@
\DeclareOption{final}{\@addlines@checkpage@true}
\DeclareOption{draft}{\@addlines@checkpage@false}
\ExecuteOptions{final}
\ProcessOptions

\addlines \[⟨Number of lines to add to the text height⟩\]
\newcommand\addlines[1][1]{%\enlargethispage{#1\baselineskip}%
\if@addlines@checkpage@
\if@twoside
\checkoddpage
\ifoddpage
\PackageError{addlines}{You're adding lines to the wrong page}{Extra lines need to be added to both sides of a doublepage spread.^^J
This error might clear up after a recompile, though.}%
\else
\afterpage{\enlargethispage{#1\baselineskip}%%
\fi
\fi
\fi}
\let\addline\addlines

\removelines \[⟨Number of lines to remove from the text height⟩\] Works with negative numbers through the miracles of \(\varepsilon\)-\TeX.
\newcommand\removelines[1][1]{%\addlines[\numexpr-1*(#1) \relax]}
\let\removeline\removelines

Finally, we don’t want sloppy page number checking:
\strictpagechecktrue