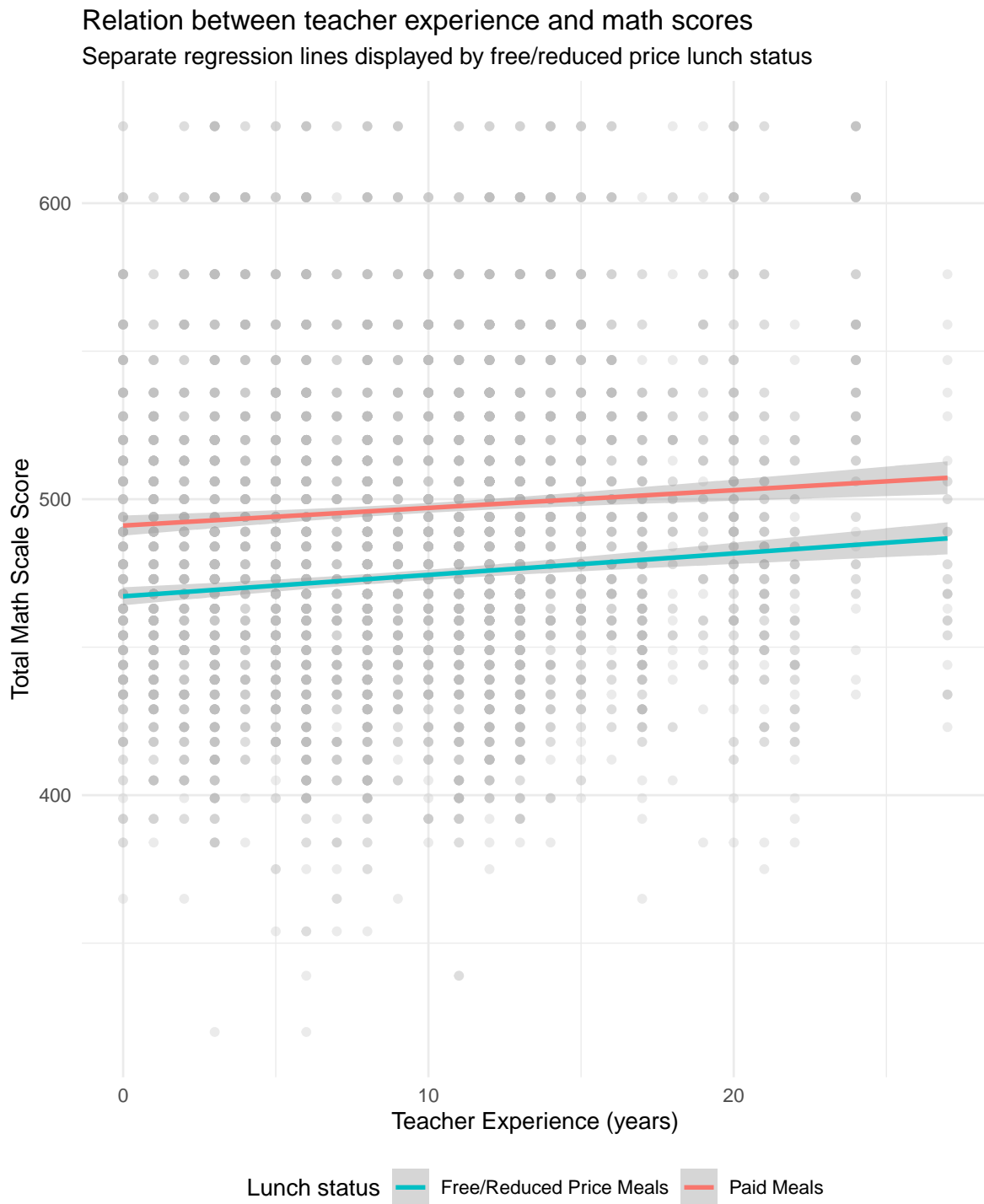


hw_6

```
# A tibble: 4 x 6
  sex   frl  math_mean math_sd rdg_mean rdg_sd
<fct> <fct>    <dbl>    <dbl>   <dbl> <dbl>
1 boy   no      493.     46.3    441.   32.3
2 boy   yes     470.     46.1    425.   26.6
3 girl  no      501.     46.0    449.   34.5
4 girl  yes     478.     46.3    431.   27.4
```

Commit 4



This plot shows the relationship between years of teacher experience and students' math scores, with separate linear regression lines for students based on lunch status ("Free/Reduced Price Meals" vs. "Paid Meals"). The lines indicate that students with "Paid Meals" tend to have higher math scores on average, compared to those with "Free/Reduced Price Meals" across different levels of teacher experience.

For homework6, program R created by R Core Team (2024) is used for data analysis. Then R packages such as tidyverse (Wickham et al. 2019), here (Müller 2020), and rio (Chan et al. 2023) are applied.

References

- Chan, Chung-hong, Thomas J. Leeper, Jason Becker, and David Schoch. 2023. *Rio: A Swiss-Army Knife for Data File i/o*. <https://cran.r-project.org/package=rio>.
- Müller, Kirill. 2020. *Here: A Simpler Way to Find Your Files*. <https://CRAN.R-project.org/package=here>.
- R Core Team. 2024. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.
- Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Golemund, et al. 2019. “Welcome to the tidyverse.” *Journal of Open Source Software* 4 (43): 1686. <https://doi.org/10.21105/joss.01686>.