Marth 4939 March 17, 2021

Consider the model:

```
fit <- lm(mathach ~ ses + cvar(ses, school), hs)
wald(fit)</pre>
```

- 1. Draw a diagram showing the estimated relationship between 'mathach' and 'ses' for values of ses ranging from -2 to 2, for:
 - a. a school with mean ses equal to 0, and for
 - b. a school with mean ses equal to 1.

Be sure to indicate clearly where the estimated coefficients in the model appear in the diagram.

2. In what sense is the model:

```
fit2 <- lm(mathach ~ dvar(ses, school) + cvar(ses, school), hs)</pre>
```

equivalent to the former model. Explain clearly.

Quiy 7

-2 0 25es