



## 4.2 Video 3: Alex and Carly Engaging with Desmos' Avi and Benita's Repair Shop Task Transcript



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### Transcript:

Alex: Sketch tool up here

Carly: You can draw the lines.

Carly: If you draw a straight line going

Carly: up the dots that would,

Carly: like use the...using the line tool.

Carly: There's a line tool.

Alex: Yeah, a line would help.

**[Student starts drawing a line with the pen tool and then switches to using the line tool. They are drawing the line connecting points from day 0 to day 20 for Benita's rule.]**

Alex: (unclear)

Alex: So day 20.

Alex: So you're looking for right here.

Carly: Mmhmm

Alex: And then-

**[Student draws a line for Avi's rule that is horizontal from day 0 to day 20.]**

Carly: So

Carly: I think it shows that

Carly: since Benita at day 10 had 1000

Carly: at day 20 she's going to have 2000,

Carly: which makes sense.

Carly: And then for day 10 for Avi

Carly: at some decimal number in between,

Carly: it's like one or two.

Carly: So she's...she's gonna be like,

Carly: just not as much as Benita.

Carly: (laughs)

Alex: Yeah. Benita's rule would be better, right?

Carly: Mmhmm

Alex: Explain your thinking.

Alex: So if Benita

Alex: had

**[Student begins typing response to explain their answer to who they think will pay more on Day 20.]**

(keyboard clicking)

Alex: If Benita paid...



Carly: 1000, If Benita paid \$1,000,

Carly: at, on day 10,

Carly: then on day 20 she would have paid \$2,000.

**[Student typed "If Benita paid \$1000 on day 10 then on day 20 she will pay \$2000."]**

Carly: And then,

Carly: for Avi,

Carly: As you can see, it's just slowly going up from

Carly: well,

Carly: half of it, half of a square is 100

Carly: because of one whole, like rectangle thingy is 1000.

Carly: So,

Carly: in the middle would be 500.

Carly: So I guess they're actually not half

Alex: Yeah, I don't think this graph really,

Alex: like is good...

Alex: like separated.

Carly: See if you can zoom in, that might help

Alex: Zoom

(mouse clicks)

**[Student clicks grid to try to zoom and moves cursor around.]**

Alex: All right, you can't.

Alex: Yeah, I'm not even gonna try,

Alex: cause I'll probably draw on everything.

Carly: (laughs) Okay.

Carly: So

Carly: if the middle line, the line between 1000

Carly: and zero is 500,

Alex: Which is,

Alex: on day 5, which is half-

Carly: Avi isn't going to even reach that middle line.

Carly: So, and 2000 is 1500 more than 500, so.

**[Student types sentence "Avi will not have paid over \$500 by day 20."]**