



4.2 Video 2: Elise and Fin Engaging with Desmos' Avi and Benita's Repair Shop Task Transcript



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Transcript:

Fin: What do the lighter red dots represent?

Elise: Hmm?

Teacher: What do you think they represent?

Teacher: Compare the...

Teacher: What do you think they represent?

Fin: I was thinking maybe, like, what's going to happen,

Fin: like, um

Fin: 13 through 19 isn't shown on the graph.

Teacher: Mm-hmm.

Fin: I was thinking maybe it meant that.

Teacher: Okay.

Teacher: So, um, look up, pick one of the light blue ones,

Teacher: And, um...

Teacher: one of the light blue dots.

[Student selects one of the red points that is shaded lighter. The coordinate is (19,1900), and then they select a red point and deselect all points.]

Teacher: There you go.

Teacher: So, what do you...

Teacher: Now that you are actually clicked

Teacher: on one of those light blue dots,

Teacher: how does that help you think

Teacher: about what they actually represent?

Elise: Oh, it represents the points where it will be.

Elise: Oh, I think we may have done

Elise: some incorrect calculations for Avi's rule.

Teacher: What makes you think that?

Elise: Because the red dots overtake the blue ones.

Fin: And then it goes back down,

Fin: and that doesn't seem right.

Elise: That red dot, I think,

Elise: is what we had originally put there.

(indistinct whispering)

Teacher: So, I hear you kind of whispering a little bit,

Teacher: I think, Elise,

Teacher: what are you...

Teacher: what's twirling around in your head up there?

Elise: Hang on a sec. Calculations.



Elise: If we start doubling the numbers again,
Elise: the actual one that we would get would be,
Elise: apparently seems to be 5,242.88.

Teacher: How'd you arrive at that?

Fin: Oh, I see the problem.

Fin: Our number on 20 was too low.

[Student erases amount previously put for Avi on day 20 and enters 5242.88 in the space.]

Fin: If we

Fin: do get that and try it,

Fin: what would...

Elise: See that...Then it's more,

Elise: like, it makes more sense,

Elise: but it does cross blue, which I wasn't expecting.

Elise: Oh wow. He crosses blue a lot.

Fin: So Avi does end up paying us more.

Elise: Can you see where it crosses?

Elise: Does it tell you?

Elise: Like, can you put your mouse over-

Fin: No, I don't think

Fin: No I don't think it does.

[Student hovers over points and then goes up to point at day 20.]

Elise: Oh wow,

Elise: Avi's really pulling through with that money.

Elise: First, I thought Avi was kind of cheap,

Elise: but the law ends up actually paying us way more.

Fin: By day 20 you're getting way more.

Elise: By day 20 we're getting paid.

Fin: It's kinda cool that since it doubles,

Fin: the line just gets steeper and steeper,

Fin: but it's kind of-

Elise: Eventually, it's almost vertical.

Fin: Yeah.

Elise: Okay. Do you agree with the numbers Fin?

Fin: Yes.

Elise: Now what do you notice about...

Elise: Avi's rule was shown in red,

Elise: Benita's rule is shown in blue.

Elise: Now, what do you notice about the graphs?

Elise: In particular, is there anything

Elise: you're surprised by?

(indistinct)

Fin: Um...Benita's keeps...

Fin: Sorry about that, if you heard that.

Fin: Um Benita's continues to stay constant



Fin: and then Avi's takes a really sharp curve.

[Student types "Benita's line is constant. Avi's changes quickly to become steeper. By day twenty, Avi pays more. Avi's quick change to a steeper line surprised me."]