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**OfficeHours\_IS31\_20160405\_Seg04.pdf**

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**Setting: Loudness ranges from mild to loud classroom**

**Participants: S1 (gray hat, male) IS31 (lakers sweater, male) S2 (gray sweater) S3 (maroon sweater, female)**

0:00

XXX S1: ((starts a bit cut off))  
XXX cause he have a extra one four.  
XXX I was like  
XXX where did he get the four from?  
XXX IS31: hm?  
XXX S1: you have a like th- the  
XXX the thirtieth per- a- percentile?  
XXX uh you get like uh negative zero point five two four.  
XXX IS31: ah: ok [so you mean from-  
XXX S1: [I was like  
XXX [where did he get four from?  
XXX IS31: [so: y-you mea:n  
XXX yea from the table you can just (.) get  
XXX two digits.°  
XXX right?°  
XXX S1: yea I just get [((unclear))  
XXX IS31: [bu:t  
XXX yea  
XXX then tha- that doesn't matter .  
XXX [maybe it was uh  
XXX S1: [cause  
XXX however um (.)  
XXX I have it a question is here  
XXX ((shuffles notes to find it))  
XXX here ((points to notes))  
XXX you see?  
XXX like how- like thirtieth percentile (is very difficult)  
XXX like eighty-five then fifty then fifteen  
XXX so do I (take it) as the least↑ number of it?  
XXX IS31: [hm:  
XXX [or (.) just like any number I pick  
XXX IS31: a- actually that doesn't matter.  
XXX S1: it [doesn't matter?  
XXX IS31: [tha- that's just  
XXX yea [just uh  
XXX S1: [cause here we this (.) uh zero  
XXX then we- I just get the only one  
XXX this one ((points at notes))

XXX           like one number (.2)  
XXX IS31:    m:: ((thinking))  
XXX S1:     three zero eight- uh  
XXX           eight one  
XXX           if I go to that uh thirtieth percentile,  
XXX IS31:    [m::  
XXX S1:     [like the first one I got like (three point eight)  
XXX IS31:    (let's say) you- you better find the most uh:  
XXX S1:     least number  
XXX           ok  
XXX IS31:    yea m- most uh (.) I mean  
XXX           nearest (.) number.°  
XXX S1:     got you  
XXX IS31:    but actually that doesn't (make) a lot  
XXX           but  
XXX           but if- if you can use (.) like computer↑  
XXX           to do (.) calculation  
XXX           you can ((unclear)) accurate number.=  
XXX S1:     =yea  
XXX           in that- in- in- in the exam you know you're like  
XXX           ((motions a lot of writing))  
XXX           >go blind in you like you have to look for it all over<  
XXX           ((IS31 nodding))  
XXX           >and you're just like hurting your time<  
XXX           ((pause)) ((sudden end in conversation))  
XXX           let's see°  
XXX           ((a few moments later S2 enters the conversation))  
XXX S2:     is this correct? ((IS31 leans over towards S2))  
XXX           so: I got answer↓ (.) part a like this  
XXX IS31:    yes  
XXX           and (.) I think (.) if you (.) need to do (.) this  
XXX           integration,°  
XXX           it better is plan this (.) (in the)  
XXX           like (,) uh  
XXX           like  
XXX           like ((draws in the air))  
XXX           (monomial) form.  
XXX           and like this-  
XXX           in this case°  
XXX           ((unclear but is solving problem on paper))  
XXX           like this  
XXX           n- no:  
XXX           uh: for example, (.)  
XXX           this one. ((pointing @paper))  
XXX           one minus x squared.

XXX can you: (.1)  
XXX do you know how to expand it into (.) some multiple, (.1)  
XXX form.  
XXX S2: like this?° ((writing it down))  
XXX IS31: yea  
XXX and th- the (.)  
XXX S2: no but this is wrong ((crosses out what she wrote))  
XXX IS31: yea that's right  
XXX one: minus x multiple by one minus° ((unclear))  
XXX S2: m:  
XXX IS31: and then you can do↓ (.) next step.  
XXX how to  
XXX S2: ((looks confused))  
XXX IS31: ((unclear)) you can write it as one minus two x plus=°  
XXX S2: =ah:  
XXX IS31: yea  
XXX S2: ok  
XXX IS31: yea yea  
XXX because this: form it's easy to: (.)  
XXX S2: inte[grate  
XXX IS31: [integration ((nods))  
XXX yea  
XXX ((pause as S2 finishes the problem))  
XXX and then (.) ((points @notes))  
3:00  
XXX this case you just need to multiply it by another x°  
XXX S2: ah: ((erases what she wrote))  
XXX ((pause))  
XXX S1: why did I get the wrong answer? ((IS31 does not hear))  
XXX S1: why did I get the wrong answer?  
XXX IS31: hm?  
XXX S1: yea for four five zero one?° (.)  
XXX I get this  
XXX ((points @notes))  
XXX cause ok  
XXX I wanna try something really quick,  
XXX I'm gonna try it first ((starts typing on calculator))  
XXX (we add eight here) (.) one two zero↓ multiply (.1) nega-  
XXX (.)  
XXX negative point↑ (.) five two four,(.1)  
XXX equal (.) this, (.) plus five thirteen  
XXX ((typing)) five thirteen,  
XXX IS31: it seem (.) seems correct  
XXX not correct?  
XXX S1: you have it

XXX            yea you have it five point- yea  
 XXX            one two  
 XXX            yea  
 XXX            you can check ((hands IS31 calculator))  
 XXX            yea  
 XXX            cause I- I'm right ((unclear)) decimal number  
 XXX S1:            and then I took only [one decimal number  
 XXX IS31:                          [ah yea  
 XXX S1:            that's why I have it [bigger than that  
 XXX IS31:                          [ah yea yea  
 XXX            ((laughs))  
 XXX            th- tha- that that's ok°  
 XXX            ((S2 talks to catch IS31's attention))  
 XXX S2:            even though I integrate? ((lines paper))  
 XXX IS31:            hm:  
 XXX            let me see°  
 XXX            ((pause as he reads paper))  
 XXX            hm::  
 XXX            ((pause))  
 XXX            oh ok°  
 XXX            uh: first, (.)  
 XXX            the (.) two multiple by: x square  
 XXX            the integration should be:  
 XXX S2:            oh:  
 XXX IS31:            should be two over three (.) right?°  
 XXX            ther- there should be an integration two over three°  
 XXX            before°=  
 XXX S2:            =ah yea ((erases))  
 XXX IS31:            and there is a (.) twelve (.) b- before (.)  
 XXX            over this (.) ((pointing @paper))  
 XXX            because there is°-  
 XXX S2:            oh: yea  
 XXX IS31:            you can (multiple) all the parts by twelve  
 XXX S2:            plus ((writes plus sign on paper)) ((unclear))  
 XXX IS31:            yea yea you (can write that)°  
 XXX S2:            but if you (.) uh plug in here, ((writing))  
 XXX            ((S3 walks over between IS31 and S2))  
 XXX            ((observes closely))  
 XXX IS31:            ok  
 XXX            uh: for this case (.)  
 XXX            because I have seen that x is greater than zero.  
 XXX            right?  
 XXX            ((S2 gets scared by S3))  
 XXX            so (.) ((writes on S2's paper))  
 XXX            the integration should be zero to x

XXX S2: m::=  
XXX IS31: =not- yea:  
XXX uh  
XXX the general form is minus infinitive.  
XXX but (.1) for some (.) cases  
XXX ((S3 suddenly places her notes between IS31 and S2))  
XXX if you know the yea (lower form of x)=  
XXX S3: =so the  
XXX so the p right here, ((looks at paper))  
XXX um:  
XXX I got this  
XXX this is the p that I got  
XXX IS31: oh  
XXX ok  
XXX S3: and then (.) so I just use this formula right here  
XXX ((points))  
XXX IS31: yes  
XXX S3: what so n is a hundred,  
XXX IS31: yea  
XXX S3: and x is [twenty  
XXX IS31: [twenty  
XXX yes=  
XXX S3: =so (.)  
XXX then  
XXX I just (.) then it's just gonna get too complicated  
XXX cause this is a hundred vectorial over twenty vectorial  
XXX ((solving problem))  
XXX eighty, (.)  
6:00  
XXX so that's gonna be  
XXX IS31: m:  
XXX yea [((unclear))  
XXX S3: [two hun-  
XXX a [hundred times ninety nine times ninety eight  
XXX IS31: [no no th- wh- what does the:-  
XXX what does (the solution also) write like this (.1)  
XXX or [you can use uh (.) that or something  
XXX S3: [I have no idea  
XXX I have no idea  
XXX ((leaves but quickly comes back as IS31 speaks))  
XXX IS31: actually I think you- y- your computer=  
XXX S3: =it- it's just too complicated  
XXX [like I have to times everything  
XXX IS31: [but y- you can-  
XXX you can- you can use your calculator to do this.

XXX S3: yea  
XXX but I just (.)  
XXX I don't think ((unclear))  
XXX IS31: uh:  
XXX this should be a  
XXX uh:  
XXX I mean (.) accurate (.) number.  
XXX but maybe you can use um  
XXX approximation  
XXX but (.) so long as you can handle this (.)  
XXX using a calculator, (.) ((types in calculator))  
XXX it's not (.1)  
XXX that bad.°  
XXX how to do integral,° ((on the calculator))  
XXX S3: I have no idea  
XXX IS31: oh this one ((clicks calculator))  
XXX oh  
XXX you just use:  
XXX oh ((chuckles)) it's ok  
XXX you can ((inaudible))  
XXX ((S3 takes calculator from IS31))  
XXX S3: wait how do you do this using calculator?  
XXX IS31: ((takes calculator back))  
XXX m::  
XXX th- this ((unclear)) r (.2)  
XXX means (.) the number of (.) from like  
XXX (a choose b)  
XXX for example  
XXX S3: from (n choose r) right?  
XXX IS31: yea  
XXX for example (from five choose two is (.) ten)  
XXX ((both nods))  
XXX yea  
XXX S3: can you- can you calculate this for me? ((points at  
calculator))  
XXX so I can know if this is correct  
XXX ((pause while IS31 calculates))  
XXX IS31: this is  
XXX [oh ((realizes calculator belongs to S1))  
can I use this?=  
XXX S1: =yea no no no it's fine  
XXX no worries  
XXX S3: [and also (te-test) this  
cause I wanna ch- check if I got it right answer.°  
XXX ((pause as IS31 checks))

XXX twenty° ((reads question to IS31))  
XXX ((IS31 nods))  
XXX IS31: thank you,°  
XXX S3: one minus° (.1)  
XXX two point° (.2)  
XXX e°  
XXX ((pause as IS31 fills rest of answer))  
XXX IS31: is that right?=  
XXX S3: =is this right? I don't know ((chuckle))  
XXX IS31: I think it should be right  
XXX ((pause))((S3 checking notes and calculator))  
XXX S3: thank you  
XXX (and also°)  
XXX IS31: yea  
XXX S3: [so I did this  
XXX IS31: [you you better take a calculator with you  
XXX when take exams  
XXX if you need it.°  
XXX S3: so I  
XXX so this one ((points at question))  
XXX so I plug it in  
XXX I use um (.) the antiderivative pdf  
XXX so I just put this in,  
XXX put this in,  
XXX ((when she says "this" she points to something different))  
XXX and (then antiderivative) number.  
XXX IS31: a- are you sure this is correct?  
XXX the integration?  
XXX ((pause))  
XXX S3: yea:  
XXX I just (.2)  
XXX uh:  
XXX actually I don't know  
XXX IS31: ok  
XXX m:  
XXX a better way to do integration is that you:  
XXX [you-  
XXX S3: [I used the cdf  
XXX cause the cdf is just the antiderivative from um: (.)  
XXX oh cdf is the antiderivative of- of(.)  
XXX IS31: ok  
XXX [are you sure that- (.)  
XXX S3: [of pdf,=  
XXX IS31: =are you sure this cdf is right? (.2)  
XXX S3: I think it's right°



XXX IS31: actually I think it's not right. (.2)  
XXX ((reading paper))  
XXX ok°  
XXX a- a better way to (.) do such integration is that you just  
XXX i- uh- (expand) this (.)  
XXX in a form of (.) the multi (.1) multi,  
XXX how to say° ((chuckle))  
9:00  
XXX uh  
XXX like this ((writes on paper))  
XXX for example this is one (.)  
XXX one ((unclear)) one minus one squared right?°  
XXX S3: mhm  
XXX IS31: and one minus (.) one square is (.)  
XXX **one minus two one<sup>↑</sup> plus (.) one (.) squared.**  
XXX ((.3 as S3 reads what IS31 wrote))  
XXX S3: [oh:: I did (not)  
XXX IS31: [oh you just plan it (.) into this form  
XXX S3: because I did the- I did the (u) substitution  
XXX IS31: yea I know but I think  
XXX um:  
XXX this form is not correct (.1)  
XXX ((S3 nods))  
XXX it's not integration form  
XXX S3: ok  
XXX thank you  
XXX ((walks away))  
XXX S2: ((walks by and sets paper in front of IS31))  
XXX can you help me write something?  
XXX IS31: sure°  
XXX S2: for (.) part d,  
XXX ((inaudible))  
XXX IS31: uh: ((reads paper))  
XXX it should be correct  
XXX uh:  
XXX [except for uh twelve,  
XXX S2: [I didn't ((unclear))  
XXX IS31: you missed uh  
XXX the twelve  
XXX S2: ah  
XXX ((pause while writes on paper))  
XXX IS31: it seems that (it would be) correct°  
XXX S2: and I just checked=  
XXX IS31: =oh (you can just do) this, (.2)  
XXX because as you have calculated the cdf

XXX you can just use cdf to (.) do- (.1)  
XXX beca- (.1)  
XXX S2: because for part b,  
XXX the answer for cdf,  
XXX IS31: ah ((S2 circles something))  
XXX ah  
XXX S2: part b,<sup>o</sup>  
XXX (the:y wrote) answer like  
XXX IS31: oh  
XXX S2: [zero six  
XXX IS31: [I know  
XXX so (there room for<sup>o</sup>)  
XXX >yea yea yea<  
XXX th- that's a- that's a-  
XXX mm:  
XXX I mean<sup>o</sup> complete form.  
XXX because (.) you know that (.) this (.) cdf f- this function  
XXX is defined on the whole ((unclear))  
XXX **from minus infinity↓ to infinity.**  
XXX right?  
XXX and uh-  
XXX this  
XXX this form is all:  
XXX **only correct↓ when x is within (.) zero and one.**  
XXX S2: oh:  
XXX IS31: and we know that this f x (.) is always (.) increased from  
XXX zero to one.  
XXX right?  
XXX S2: what about-  
XXX what does it mean (.) zero in one  
XXX IS31: beca- because: (.)  
XXX uh:  
XXX f x  
XXX um (.)  
XXX **because the:↓ (.) meaning of this cdf is that**  
XXX the probability that x (.) is less than (.3) (a)<sup>o</sup>  
XXX right?  
XXX f (a) in the probability that<sup>o</sup>  
XXX S2: mhm  
XXX IS31: a- and uh we know that this x is within (.) zero and one  
XXX right?  
XXX S2: ((nods))  
XXX IS31: so  
XXX if a is (.) less than zero.  
XXX (let's say) a is minus one

XXX S2: [mhm  
XXX [then the probability  $x$  is less than  $(a)$  is zero  
XXX right?  
XXX ((S2 nods))  
XXX because ((unclear))  
XXX so it can't be less than  $(.)$  minus one.<sup>o</sup>  
XXX so it's zero.  $(.1)$  ((S2 writing notes))  
XXX when this  $a$  is ((unclear))  
XXX S2: ((points @ paper))  
XXX so this one is  $(.)$  [only:-  
XXX IS31: yea ((nods))  
XXX S2:  $x$   $(.)$  when  $x$  is  $(.)$  less than zero.  
XXX IS31: yea  
12:00  
XXX that is on the left of it's  $(.)$  grid  
XXX S2: what about this one  
XXX  $x$  is  $(.)$  bigger than a one?  
XXX IS31: yea  $(.)$   
XXX because:  $(.)$  we know that (all  $x$  are between zero and one)  
XXX S2: ((nods))  
XXX IS31: so if  $a$  is  $(.)$  bigger than one then all  $x$   $(.)$  are (less  
XXX than).  
XXX so the probability will be one.<sup>o</sup>  
XXX ((both nods))  
XXX S1: ((comes in from left))  
XXX ok I have a one quick question.  
XXX if I don't round it up.  $(.)$   
XXX and put the answer  
XXX **it's gonna be fine↑ or not.**  
XXX IS31: mm:  
XXX S1: cause I get one point five five eight,  
XXX and you round it up with a one point five six.  
XXX IS31: it should be right. ((nods))  
XXX S1: so [(I can have it like that?)  
XXX IS31: [but  
XXX yea: but  
XXX a- as this homework is graded by other TA's  
XXX so I think it should be right.<sup>o</sup>  
XXX S1: ok  
XXX IS31: ((chuckle))  
XXX maybe I can tell him  
XXX S1: **no cause some of the TA↑ I see it like last previous my**  
XXX homework,  
XXX IS31: [ok  
XXX S1: [they correct it,

XXX           they just look at the answer  
XXX           they don't do- look at [like ok  
XXX IS31:                           [oh:  
XXX           one- one TA that I got it.  
XXX           and was like no this is not right.  
XXX           like that way  
XXX           I was like ok [this is (.) correct but  
XXX IS31:                           [ok maybe you can (.)  
XXX           you can talk to him  
XXX           you can say that-  
XXX S1:       yea and I talked to  
XXX           um  
XXX           the person he's like oh ok I don't look at that  
XXX           >I was just like looking at them↑ it's like<  
XXX           yea  
XXX IS31:       ((nodding))  
XXX           just like being lazy=  
XXX IS31:       =yea it should be fine↓ because you can only (.) get two  
XXX           digits in this table.°  
XXX S1:       yea=  
XXX IS31:       =yea ((nods))  
XXX S1:       thanks  
XXX           ((pause))  
XXX IS31:       your professor will have a review, (.) today (.) for the  
XXX           (.)  
XXX           midterm?  
XXX           ((to someone off screen))  
XXX S3:       yea  
XXX S2:       I have question.°  
XXX           four point twenty three,° (.1)  
XXX           part c,°  
XXX IS31:       mm: (.2)  
XXX           ((nods)) oh  
XXX S2:       I understand to here= ((pointing @paper))  
XXX IS31:       =mm:  
XXX S2:       and I don't get it from here,°  
XXX IS31:       uh:  
XXX           so:  
XXX           **there is a relation↑ between (.) uh:°**  
XXX           like (.1) [five x,-  
XXX S2:       oh  
XXX           [((unclear))  
XXX IS31:       [and five (.) oh°  
XXX S2:       ((shuffling through papers))