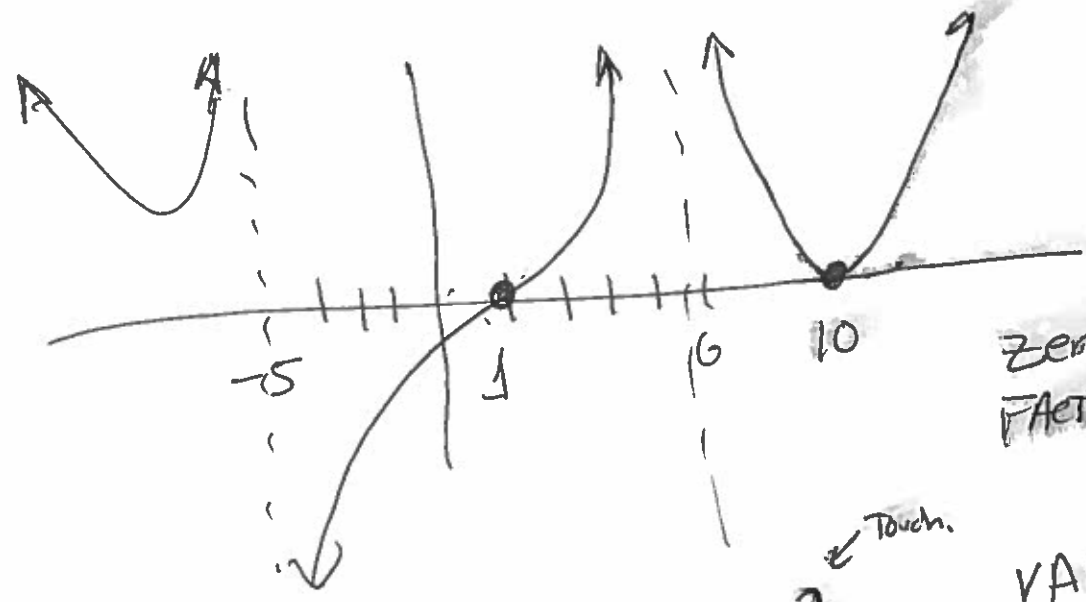


$$y = \frac{1}{x}$$


Vertical
Asymptote
 $x = 0$



$$y = \frac{(x-1)^3(x-10)^2}{(x+5)(x-6)^2}$$

Zeros: 1, 10
 Factors: $(x-1)(x-10)$
 VA: -5, 6
 Factors: $(x+5)(x-6)$
 PASS. TOUCH
 Touch.

END BEHAVIOUR

$y = \frac{1}{x}$ Has 

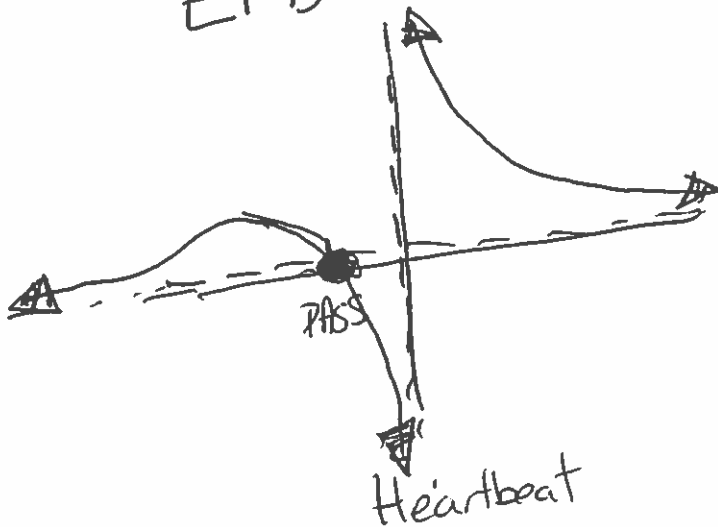
Horizontal Asymptote.
 $y = 0$

$y = \frac{1}{x^2}$ 

$DD > DN$

Ex $\frac{x+1}{x^5}$ $DN = 1$
 $DD = 5$

END with HA $y = 0$



$$DN = DD$$

Horizontal Asymptote

$$Y = \frac{LN}{LD}$$

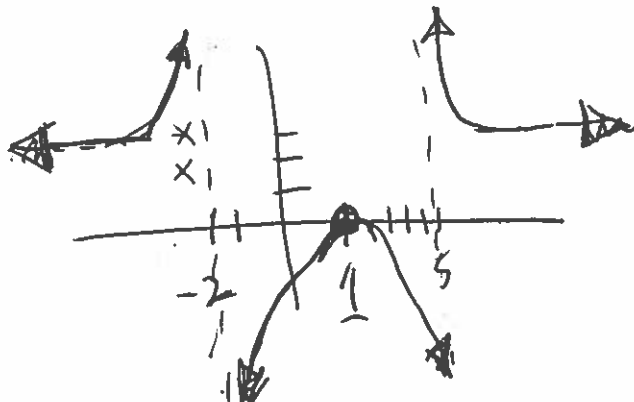
$$y = \frac{3(x-1)^2}{(x+2)(x-5)}$$

DN: 2 LN: 3

DD: 2 LD: 1

DD=DN HA $y = \frac{3}{1}$

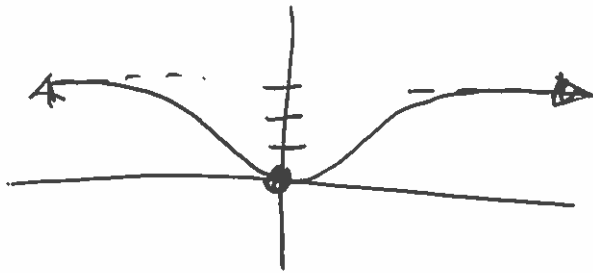
① Heartbeats



END

HEART TOUCH HEART

Graph



$$y = \frac{x^2}{x^2+1} \quad \text{DN} = 2$$
$$\quad \quad \quad \text{DD} = 2$$

Zero: \circ
TOUCH

FACTOR \times
 x^2

NUMERATOR

VA: NONE NO FACTORS.

Zeros: $\pm i$ x^2+1

HA: $y = 3$ or $\frac{3}{1}$

$$y = \frac{3x^2}{x^2+1}$$

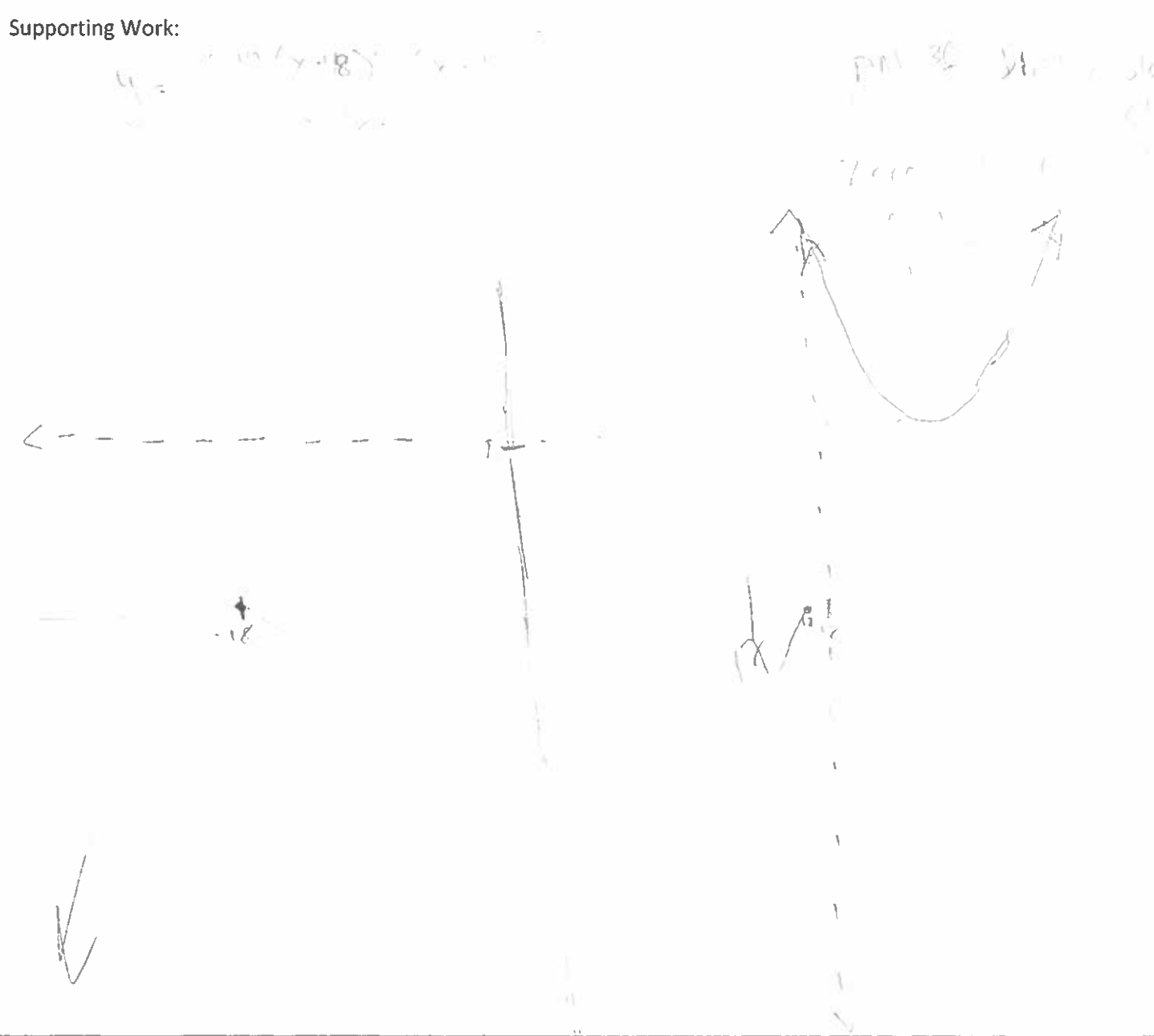
GROUP NAME: Carlyle (and ...)
Date: 10/17/11

Student Names (First and Last)
Speaker/Presenter: _____

Independent Variable (x-axis): _____
Dependant Variable (y-axis): _____

Writer/Prep: Veronica, ...
Leader/Collaborator: _____

Conclusion (in words):



GROUP NAME: oddball Incorporated

Student Names (First and Last)

Date: 9/17

Speaker/Presenter: Chris

Independent Variable (x-axis): _____

Writer/Prep: Axel Ortiz

Dependant Variable (y-axis): _____

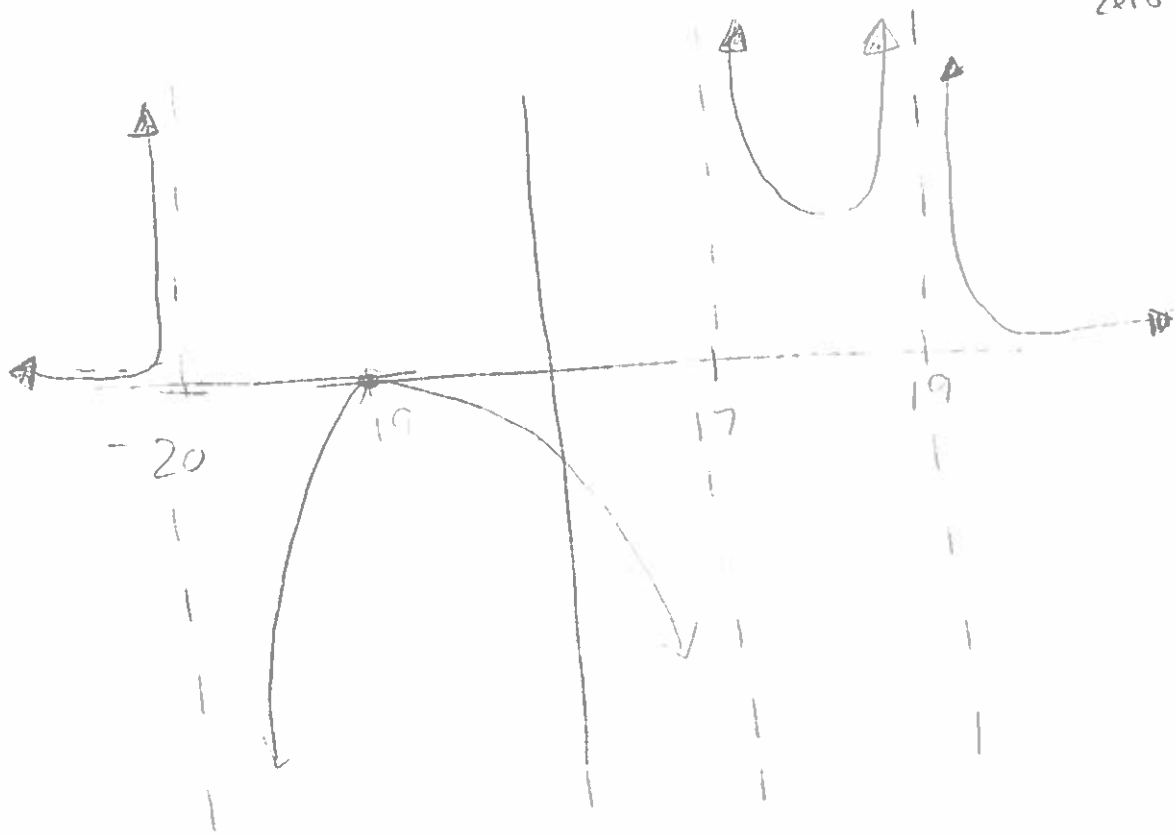
Leader/Collaborator: Marc Roberts

Conclusion (in words):

Supporting Work:

$$y = \frac{(-100)(11,9)^2}{(x-9)^{10}(1+2x^9)(x-11)}$$

11 ± 8
 $11 - 3 = 8$
 Zero = 11



$$y(-100) = \dots$$

GROUP NAME: educating the mind

Student Names (First and Last) Lissa Zambrano

Date: 9/17/14

Speaker/Presenter: MONIQUE BEASLEY

Independent Variable (x-axis): _____

Writer/Prep: MACKENZIE MAURO

Dependant Variable (y-axis): _____

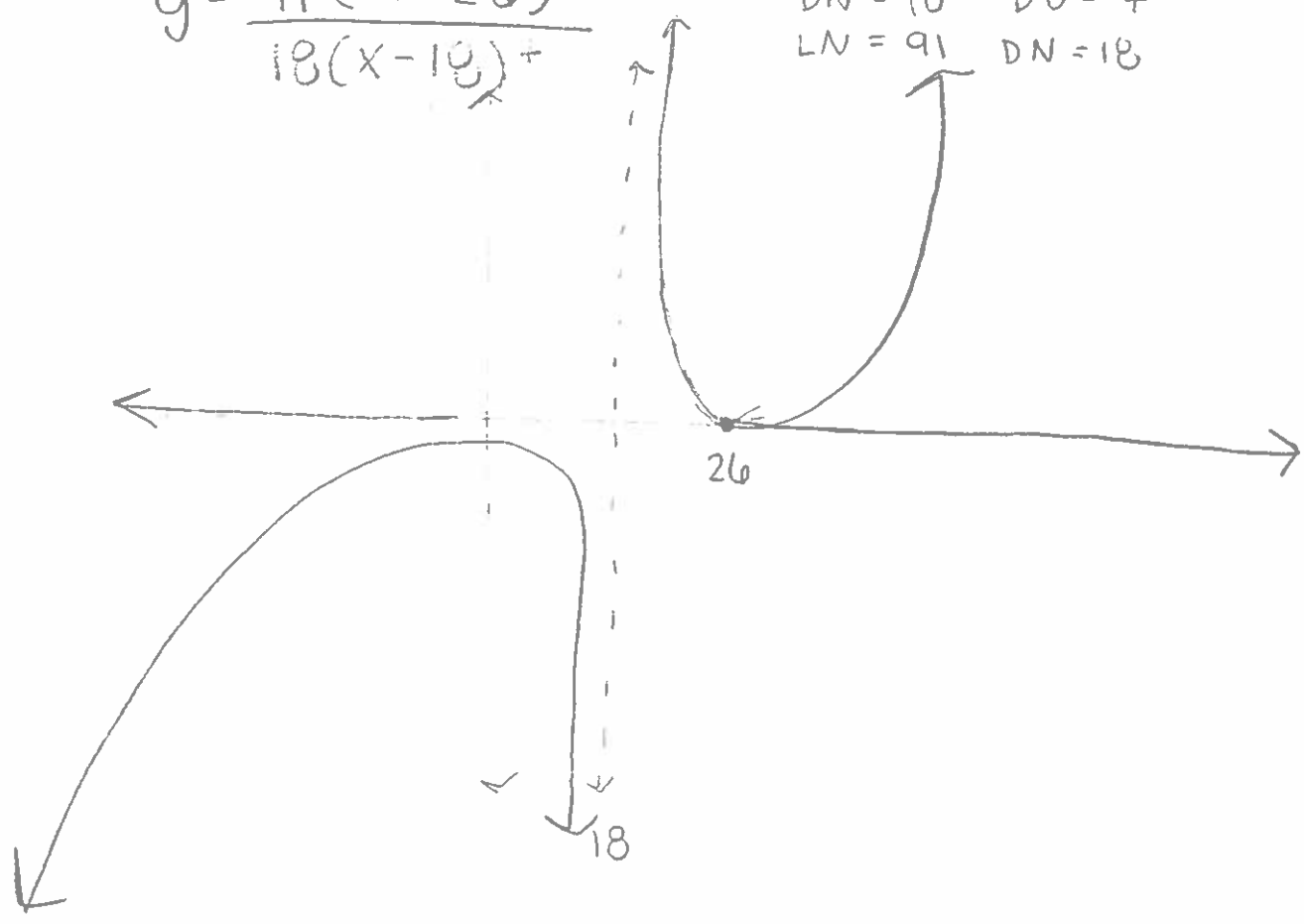
Leader/Collaborator: CASSIE SVECZ

Conclusion (in words):

Supporting Work:

$$y = \frac{91(x-26)^{10}}{18(x-18)^+}$$

VA = 18
 zero = 26
 DN = 10 DD = 7
 LN = 91 DN = 18



GROUP NAME: The struggle

Date: 9/17/14

Student Names (First and Last)

Speaker/Presenter: Alyssa, Noah

Writer/Prep: Cynthia

Leader/Collaborator: Adam

Independent Variable (x-axis): _____

Dependant Variable (y-axis): Velveta Cheese

Conclusion (in words):

Supporting Work:

$$y = \frac{\text{highest weight (x-age)}^{\text{shoesize men}}}{\text{lowest weight (x-age)}^{\text{shoesize women}}}$$

$$y = \frac{175(x-19)^{12}(x+18)^{12}}{115(x-18)^6(x+19)^6}$$



zeros: 19 (touch)
-18 (touch)
factors: (x-19)(x+18)
VA: -19, 18
factors: (x-18)(x+19)

$$\begin{aligned} \Delta N &= 24 \\ \Delta D &= 12 \end{aligned}$$

$$\begin{aligned} \Delta S &= 24 - 12 \\ &= 12 \\ &\text{Parallel} \end{aligned}$$

$$\frac{\Delta N}{\Delta D} = (+)$$

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