

Happy Wednesday, October 5th

Do now:



Danielle is making a aquarium for her fish. She wants to give him the maximum amount of water to swim in. If the dimensions are as given, what is the maximum volume of water the fish will have?

Length: $17-2x$

Width= $15-2x$

Height= x

$$f(x) = (17-2x)(15-2x)x$$

$$D: (0, 7.5)$$

Max of 301
at $x=2.65$

301 in³

Oct 4-8:42 PM

Reassessment

Tuesday - Optional Reassessment! Choose up to 4 learning targets to reassess.

Wednesday - Mandatory Reassessment (everyone) over:

U1LT2: Domain and Range

U1LT3: Transformations on functions

U2LT3: End Behavior

U2LT4: Modeling

Oct 4-8:55 PM

Let's Talk:

Standards Based Grading - Learning, Retention

I want you to be successful.

There are more important things than math (yes, even to me).

graduation

MSU Cats ^{w/} _{dogs} family ✓

* ACT ☺

job - support for college

Other classes

* APUSH

health

SPORTS

FAFSA

having fun ☺

piloting

Scholarships

Oct 4-8:53 PM

Questions from the review:

$f(x) = x^2 - 3x$

$x = -3, x = 5$

$\frac{f(5) - f(-3)}{5 - (-3)} = \frac{10 - 18}{8} = \frac{-8}{8} = -1$

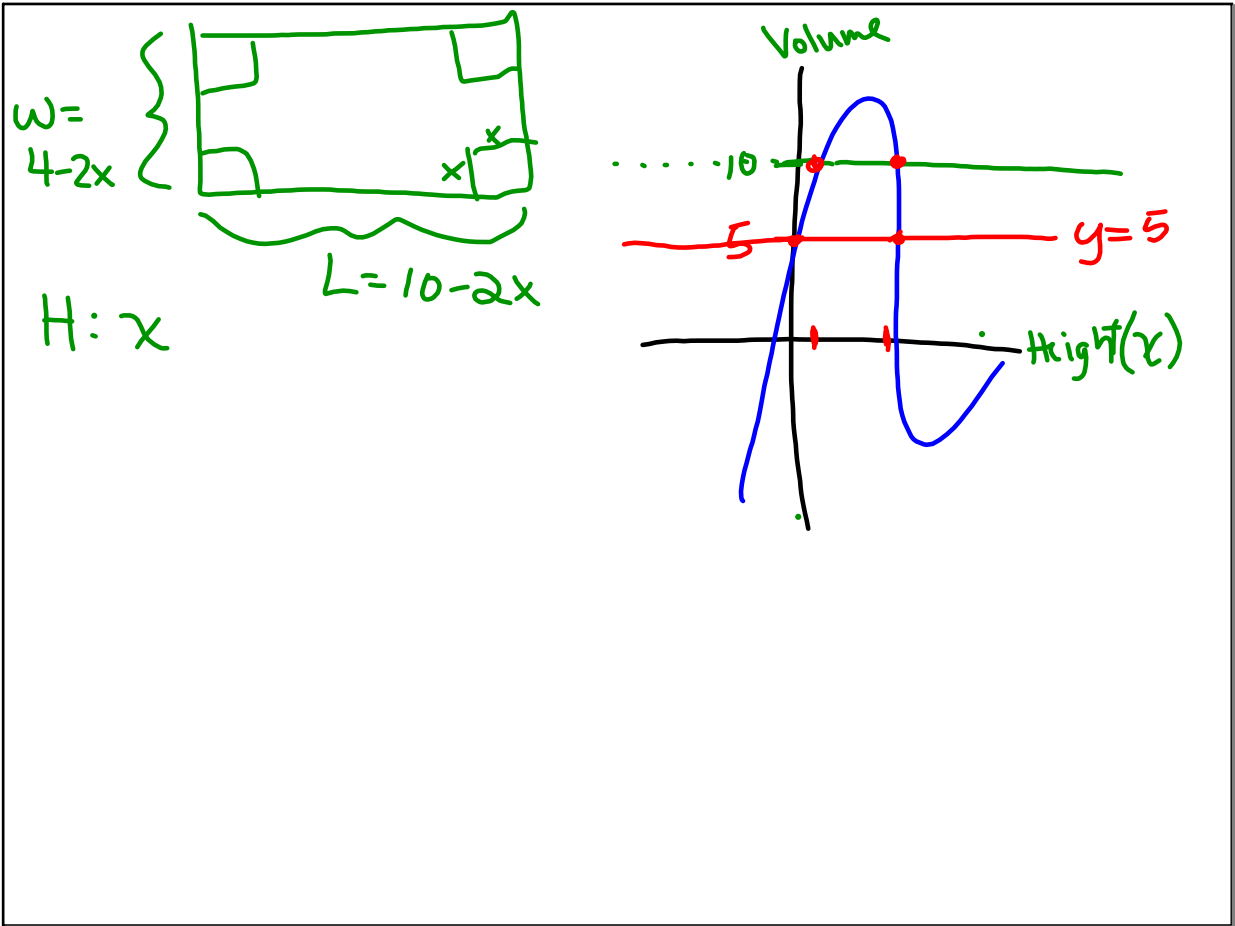
$\frac{f(c) - f(a)}{c - a} = \frac{c^2 - 3c - (a^2 - 3a)}{c - a}$

$\frac{c^2 - 3c - a^2 + 3a}{c - a}$ ← Factored?

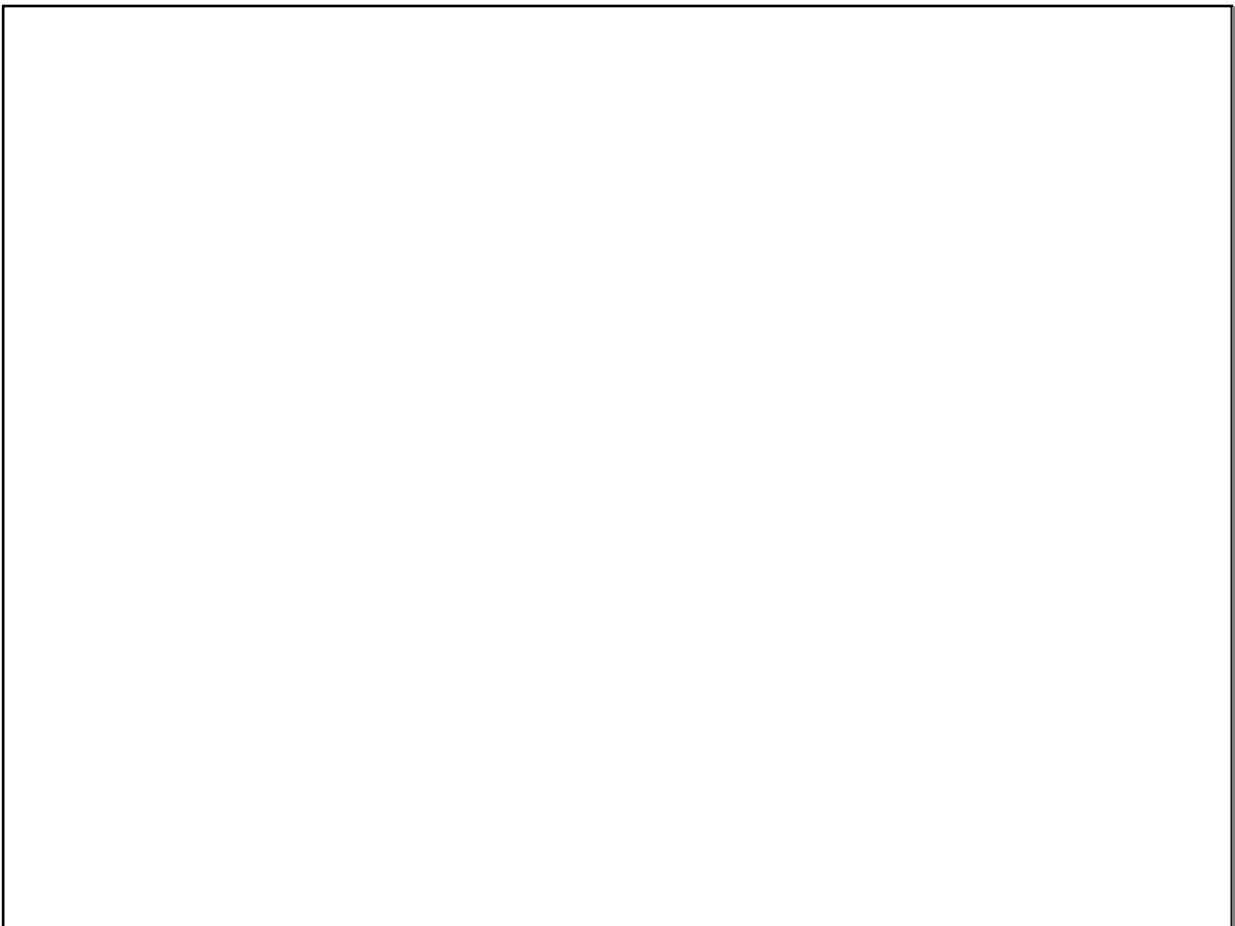
$c(c-3) - a(a+3)$

$\frac{f(a) - f(0)}{a - 0} = \frac{a^2 - 3a}{a} = \frac{a(a-3)}{a} = a-3$

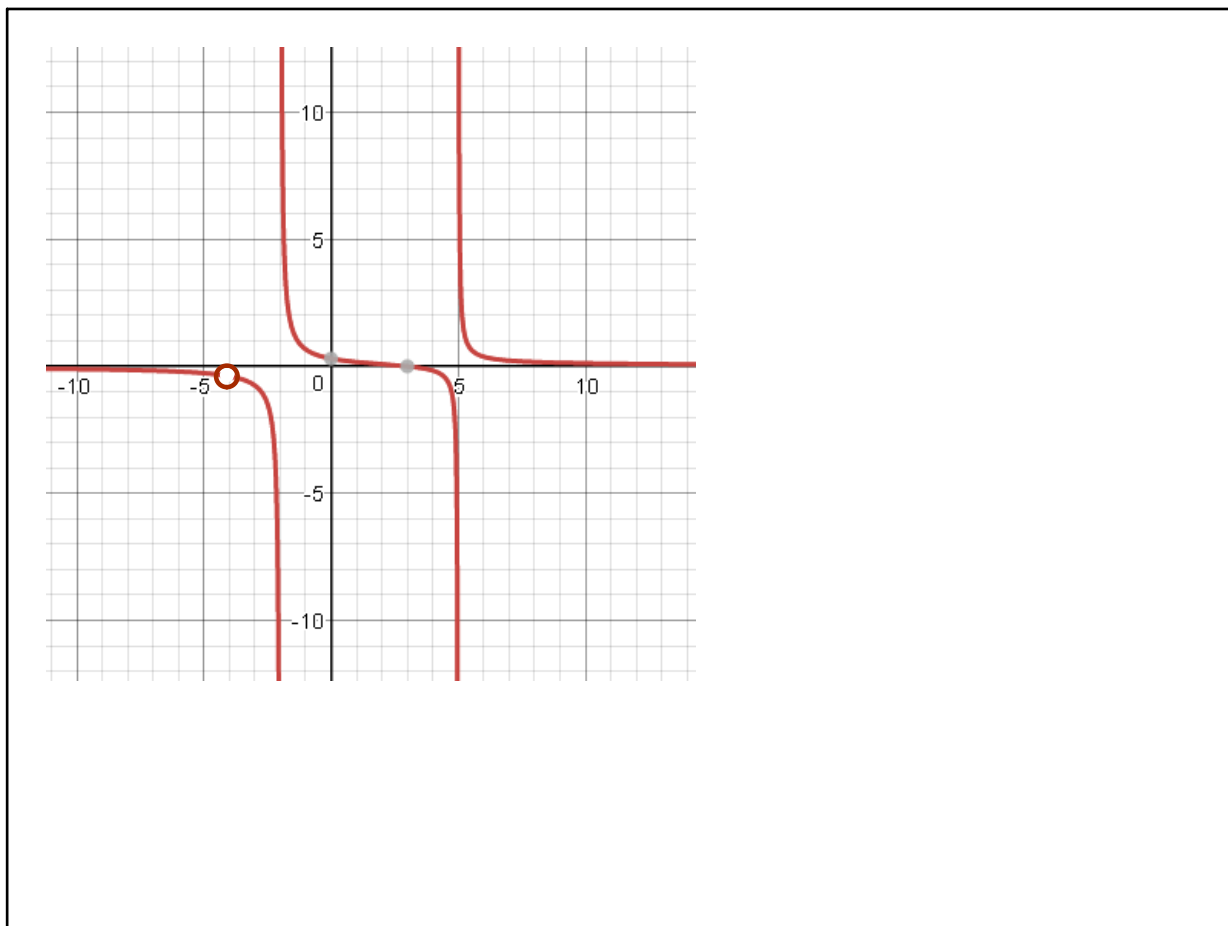
Oct 4-8:58 PM



Oct 5-8:50 AM



Oct 5-8:53 AM



Oct 5-8:00 AM

Exit Ticket

If $f(1)=3$ and $f(4)=5$, and the function is continuous, is the function ever decreasing on the interval from $x=1$ to $x=4$? Explain your answer.

Oct 4-8:59 PM