Practice Questions

Grade 11

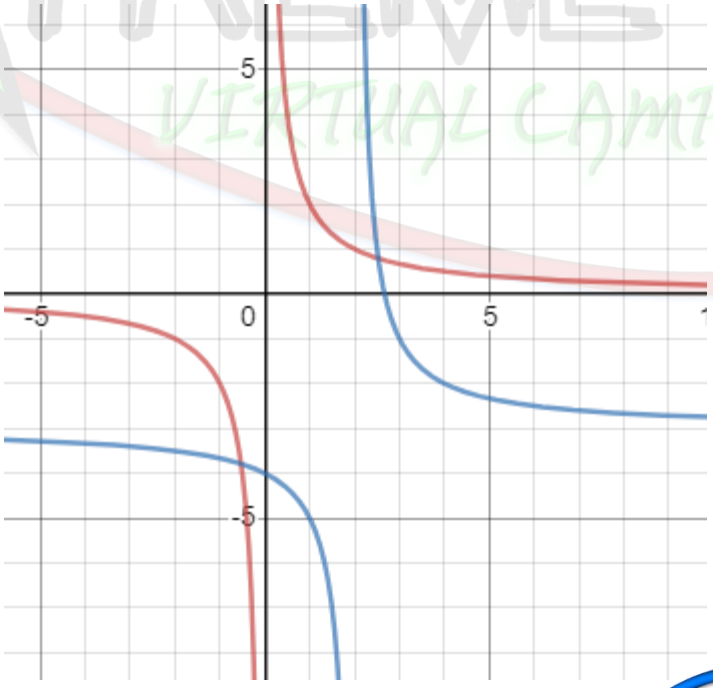
you must do this question in one of two ways:

1) if you do not know what to do, discuss it with me on the group
2) if you have indeed completed it, or tried to do it, post a photo on the group.

Observe the graph of $f(x) = \frac{2}{x}$.

Determine the equation of the new graph that will be formed if the graph of f moves 2 units to the right and 3 units down.

$f(x) = \frac{2}{x-2} - 3.$



Specific Outcomes: Functions

[3 minutes]

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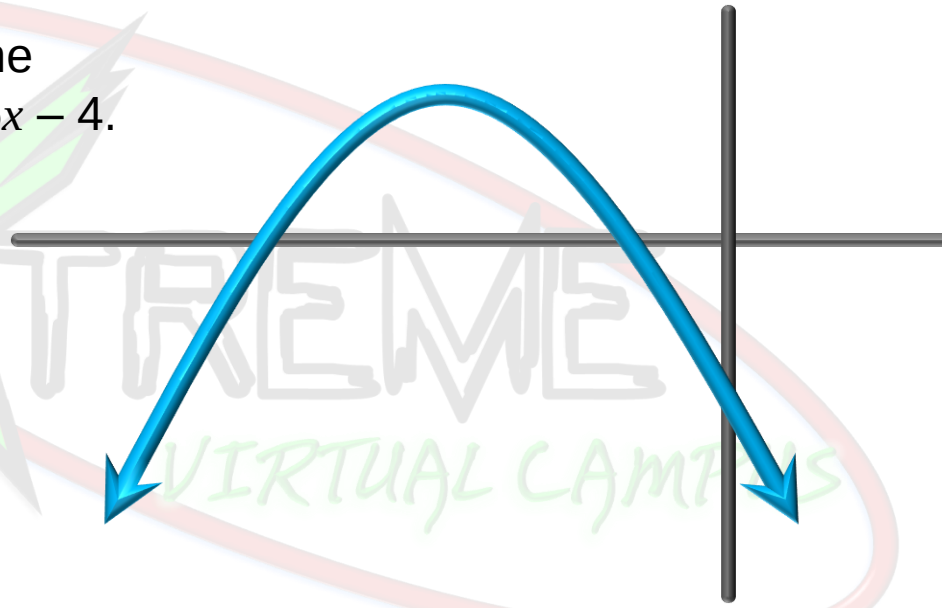
The sketch shows the graph of $f(x) = -x^2 - 6x - 4$.



Write the equation of f in the form $f(x) = a(x - p)^2 + q$, and prove that $f(x) \leq 5$ for all values of x

$f(x) = -(x + 3)^2 + 5$

Turning point = $(-3 ; 5)$ $\therefore$ max = 5 ($f(x) \leq 5$)

Specific Outcomes: Functions

[6 minutes]