Do Now: #1 from the Practice section of the Solving Rational Equations Graphically packet

Practice Exercises:
Solve each of the following graphically. Be sure to sketch a graph indicating any asymptotes and intercepts.

1. $\dfrac{4}{x} + \dfrac{1}{3x} = 9$

$X = .481$

or

$\dfrac{4}{X} + \dfrac{1}{3X} - 9 = 0$

$\{.481\}$
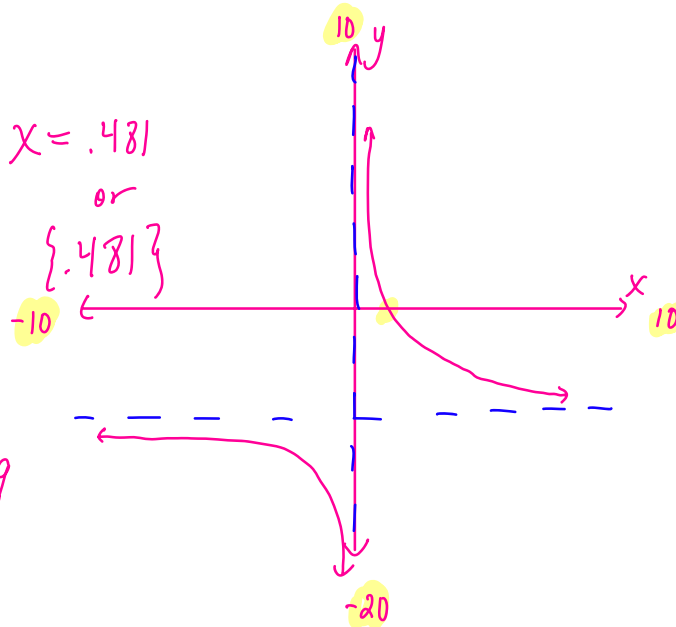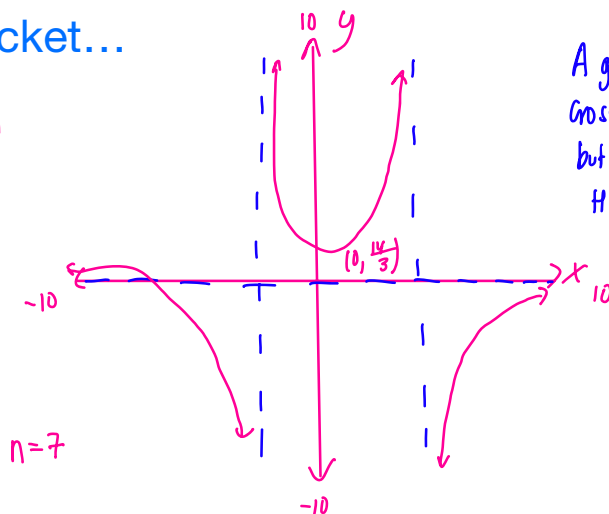
PVA: $X = 0$

EB: $y = 0 + 0 - 9 = -9$

Continuing in that packet...

2. $\dfrac{3}{n+1} = \dfrac{5}{n-3}$ let $X = n$

$\dfrac{3}{X+1} - \dfrac{5}{X-3} = 0$

PVA: $X = -1, 3$

EB: $y = 0 - 0 = 0$

$n = 7$

$(0, \frac{14}{3})$

A graph can never cross over it's VA but if can cross its HA or OA.