Bellwork

Alg 2

4th & 6th hrs

Thursday, February 21, 2019

Y-intercepts are found by replacing x with zero and simplifying. Find all the equation of the Horizontal Asymptotes and y-intercepts, if any.

1.
$$y = \frac{21x^2 - 12x}{3x^3 - 4x + 5}$$

EQ of HA:

y-int:

$$2. \qquad y = \frac{9x^2 + x - 28}{18x^2 + 7x}$$

EQ of HA:

y-int:

3.
$$y = \frac{x^4 + 6x^2 + 5}{6x^2 - 3x + 8}$$

EQ of HA:

y-int:



1.
$$y = \frac{21x^2 - 12x}{3x^3 - 4x + 5}$$

y-int:
$$y = \frac{0-0}{0-0+5} = \frac{0}{5} = 0$$

2.
$$y = \frac{9x^2 + x - 28}{18x^2 + 7x}$$

EQ of HA:

$$y = \frac{9}{18} = \frac{1}{2}$$

$$y = \frac{0+0-28}{0+0} = \frac{-25}{0} = undefin$$

3.
$$y = \frac{x^4 + 6x^2 + 5}{6x^2 - 3x + 8}$$

EQ of HA:

y-int:
$$y = \frac{0 + 0 + 5}{0 - 3 + 5} = \frac{5}{5}$$