Bellwork Alg 2A Tuesday, May 23, 2017

For each Rational Funciton find the following, if any:

a. Holes b. VA c. HA d. X-intercepts e. Y-intercepts

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

a. Holes

b. VA

c. HA

d. X-int

e. Y-int

2. $y = \frac{x^2+6x+8}{x^3+x^2-12x}$

a. Holes

b. VA

c. HA

d. X-int

e. Y-int

3. $y = \frac{x^3+x^2-30x}{x^2+2}$

a. Holes

b. VA

c. HA

d. X-int

e. Y-int

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Answers

For each Rational Funciton find the following, if any:

a. Holes b. VA c. HA d. X-intercepts e. Y-intercepts

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

a. Holes NONE

b. VA $x=-1,4$

c. HA $y=2$

d. X-int NONE

e. Y-int $y=-\frac{3}{4}$

2. $y = \frac{x^2+6x+8}{x^3+x^2-12x}$

a. Holes $x=-4$

b. VA $x=0,3$

c. HA $y=0$

d. X-int $x=-2$

e. Y-int NONE

3. $y = \frac{x^3+x^2-30x}{x^2+2}$

a. Holes NONE

b. VA NONE

c. HA NONE

d. X-int $x=0,-6,5$

e. Y-int $y=0$

$y = \frac{2x^2+3}{(x-4)(x+1)}$ No Real Zeros

$y = \frac{(x+4)(x+2)}{x(x+4)(x-3)}$

$y = \frac{x(x+6)(x-5)}{x^2+2}$ No Real Zeros