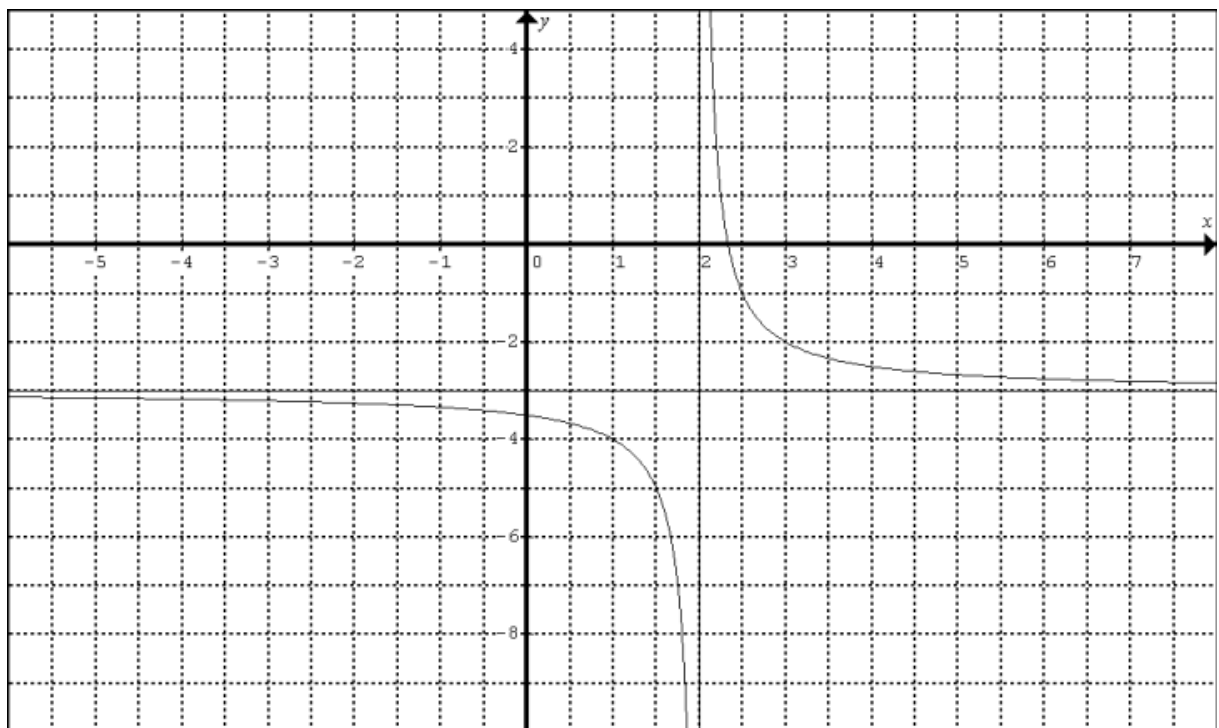
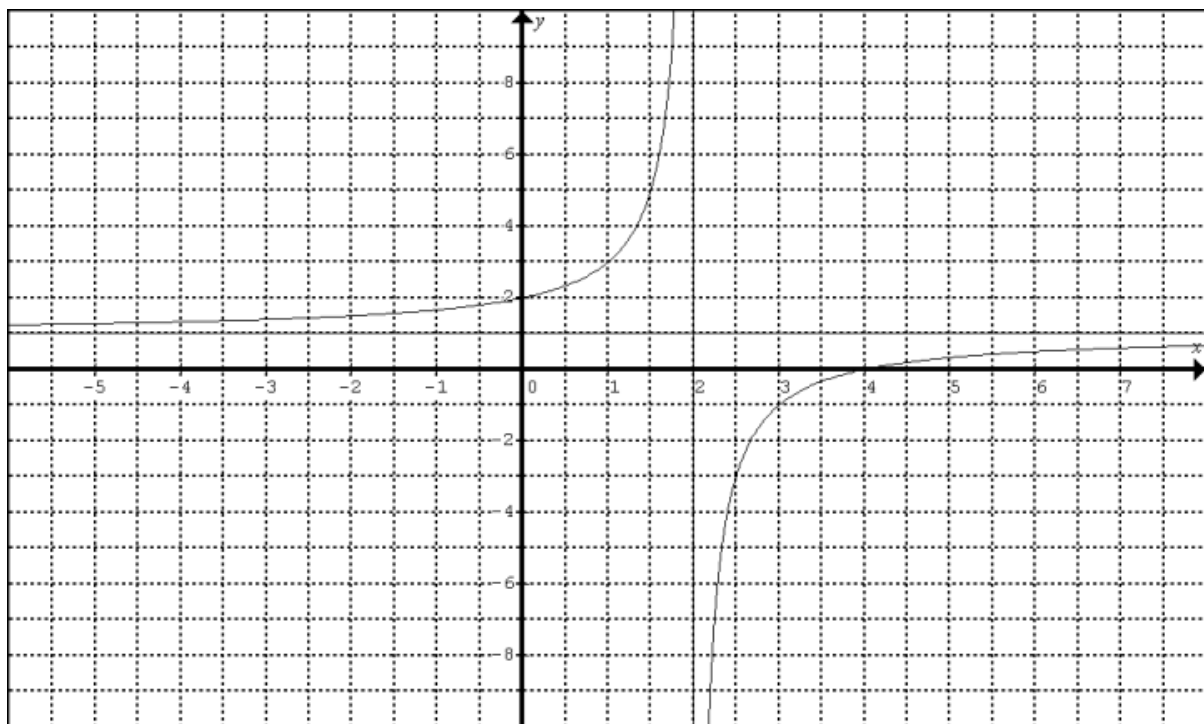


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- 1 a. HA:  $y = -3$   
VA:  $x = 2$   
x-int =  $7/3$   
y-int =  $-3.5$   
Domain:  $\{x \mid x \in \mathbb{R}, x \neq 2\}$   
Range:  $\{y \mid y \in \mathbb{R}, y \neq -3\}$



- 1 b. HA:  $y = 1$   
VA:  $x = 2$   
x-int = 4  
y-int = 2  
Domain:  $\{x \mid x \in \mathbb{R}, x \neq 2\}$   
Range:  $\{y \mid y \in \mathbb{R}, y \neq 1\}$



4 a. 3      b.  $-\infty$

6 a.  $\frac{1}{2}, x \neq -3, -\frac{3}{2}, 2, 3$

b.  $-\frac{x-2}{x+2}, x \neq -5, -2, -\frac{3}{2}, 5$

c.  $\frac{4x^2 + 6x + 17}{(x+5)(x-2)(x+1)}, x \neq -5, 2, -1$

7 a.  $x = -6$

b.  $x = 5$

11 a.  $x \in (-\infty, -4)$

b.  $x \in (-\infty, 3) \cup [6, \infty)$

c.  $x \in (-\infty, -5) \cup (-0.5, \infty)$

d.  $x \in (-2, 2)$