

PreCalculus Worksheet

Your Name:

Construct an example function and graph that has the given characteristics.

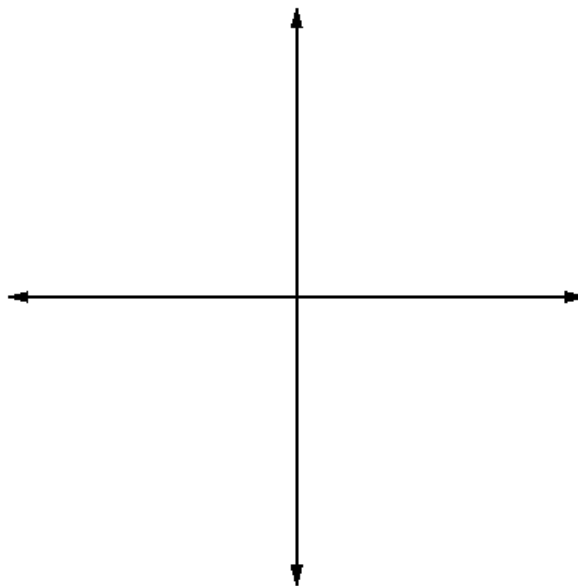
1.

horizontal asymptote
 $y = 1$

vertical asymptote
 $x = -1$

zeros at
 -10 and 0

goes through point
 $\left(-5, -\frac{25}{16}\right)$

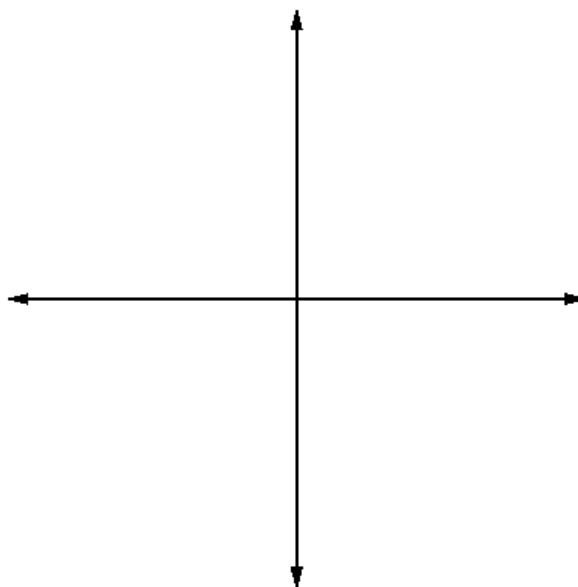


2.

oblique asymptote
 $y = \frac{1}{2}x + \frac{9}{5}$

vertical asymptote
 $x = -\frac{1}{2}$

zero at
 -2



over >>

3.



goes through point
 $(2, 2)$

vertical asymptote
 $x = 1$

vertical asymptote
 $x = -4$

horizontal asymptote
 $y = 0$

