## Test C 4.1-4.2

Name: $\qquad$

4a) Sketch a graph of the given equation.
b) Give or label the horizontal and vertical asymptote
c) Give the Domain
$y=\frac{8}{x}$

5a) Sketch a graph of the given equation.
b) Give or label the horizontal and vertical asymptote
c) Give the Domain
$y=\frac{1}{x+2}$
5. Use the equation to answer the following:
$y=\frac{-4 x+8}{-5 x+15}$
a) Find the vertical asymptote
b) Find the horizontal asymptote
d) Find the $x$-intercept of the graph
e) Sketch a graph
6. Use the equation to answer the following:
$y=\frac{x^{2}-7 x+12}{x^{2}+4 x-5}$
a) Find the vertical asymptote
b) Find the horizontal asymptote
c) Find the $y$-intercept of the graph
e) Sketch a graph
7. Use the equation to answer the following:
$y=\frac{x-2}{x^{2}-5 x-14}$
a) Find the vertical asymptote
b) Find the horizontal asymptote
c) Find the $y$-intercept of the graph
d) Find the $x$-intercept of the graph
e) Sketch a graph
8. Use the equation to answer the following:
$y=\frac{x^{2}-x-30}{x^{2}-3 x-18}$
a) Find the vertical asymptote
b) Find the horizontal asymptote
e) Find the $x$ and $y$ coordinate of the hole
9. Use the equation to answer the following:
$y=\frac{x^{2}-3 x-10}{x-2}$
a) Find the vertical asymptote
b) Find the slant asymptote
e) Sketch a graph
c) Find the $y$-intercept of the graph
d) Find the $x$-intercept of the graph
f) Sketch a graph
c) Find the $y$-intercept of the graph
d) Find the $x$-intercept of the graph

