Homework 5.5: Graphing Rational Functions Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Math 3

**Directions:** Answer each of the following multiple choice questions to the best of your ability. Show all necessary work.









**Directions:** Identify points of discontinuity, vertical asymptotes, horizontal asymptotes, and x-intercepts. Do not graph the functions.

9. 

10. 

11. 

12. 

**Directions:** Identify points of discontinuity, vertical asymptotes, horizontal asymptotes, and x-intercepts. Then, sketch the graph and state the domain.



13.



14.



15.



16.

POD:

VA:

HA:

X-int:

Domain:

POD:

VA:

HA:

X-int:

Domain:

POD:

VA:

HA:

X-int:

Domain:

POD:

VA:

HA:

X-int:

Domain: