

Name: _____
PC: More Hyperbolas and Volcanoes

Date: _____

Sketch each function using a minimum of 2 points and including any and all asymptotes.
For each graph, state the domain, range, intercepts and equations of any asymptotes.

$$1. \ y = -\frac{1}{x}$$

$$9. \ y = \frac{4}{x}$$

$$2. \ y = \frac{1}{x} + 5$$

$$10. \ y = \frac{1}{4x^2}$$

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

$$11. \ xy = 3$$

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

$$12. \ xy = -2$$

$$5. \ y = -\frac{1}{x-2} + 1$$

$$13. \ xy - y = 1$$

$$6. \ y = \frac{1}{(x+1)^2} - 2$$

$$14. \ xy - 2x = 1$$

$$7. \ y = \frac{1}{(x-2)^2} + 3$$

$$8. \ y = -\frac{1}{(x-1)^2} - 2$$