Name_____
5.4 Oblique Asymptotes
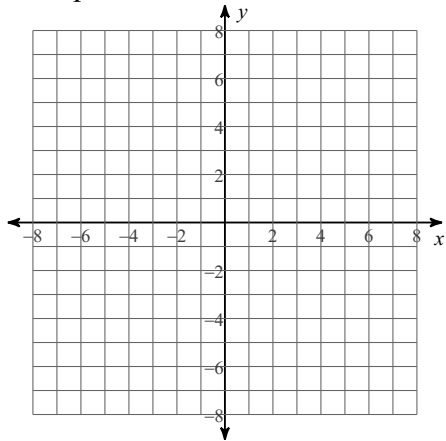
Find the VA, holes and the equation of the oblique asymptote. Sketch the graph of the function.

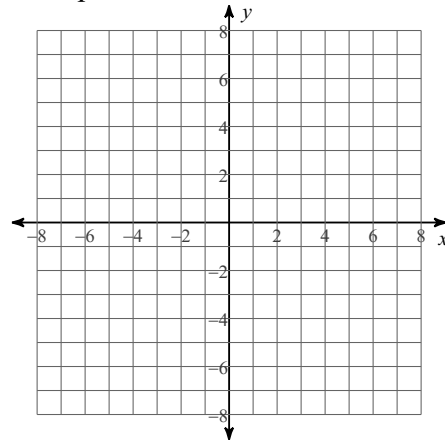1) $f(x) = \dfrac{x^2 - 7}{x}$

VA:

Holes:

Oblique:

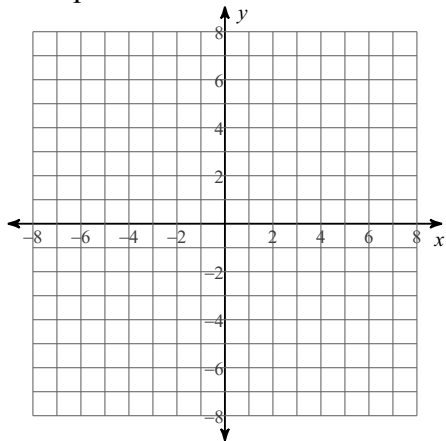2) $f(x) = \dfrac{x^2 + x + 6}{2x}$

VA:

Holes:

Oblique:

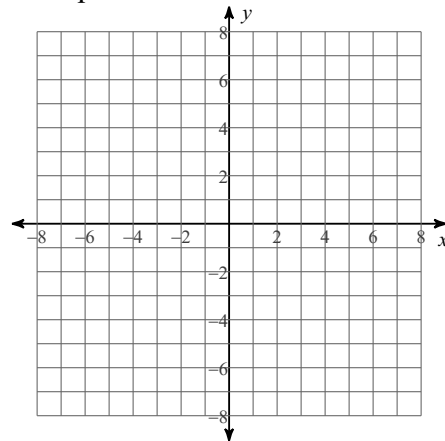3) $f(x) = \dfrac{x^2 + 8x + 5}{x + 1}$

VA:

Holes:

Oblique:

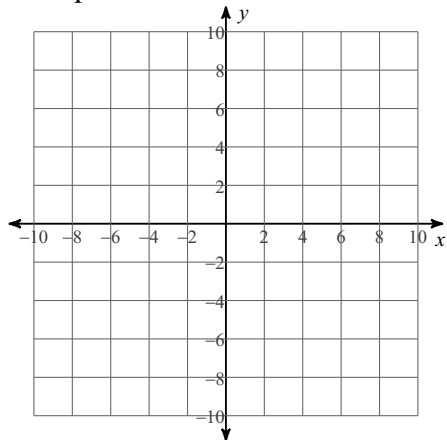
4) $f(x) = \dfrac{x^2 - 5x}{x - 5}$

VA:

Holes:

Oblique:

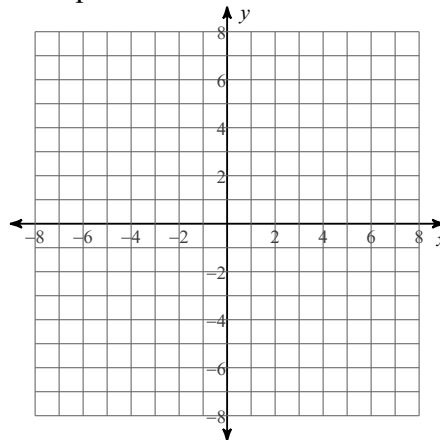5) $f(x) = \dfrac{x^2 + 2x + 1}{x + 3}$

VA:
Holes:
Oblique:

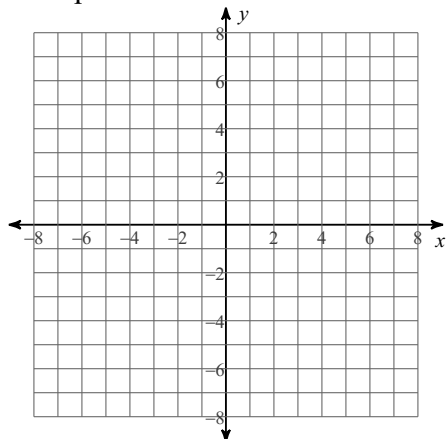6) $f(x) = \dfrac{x^2 + 3x - 5}{x + 2}$

VA:
Holes:
Oblique:

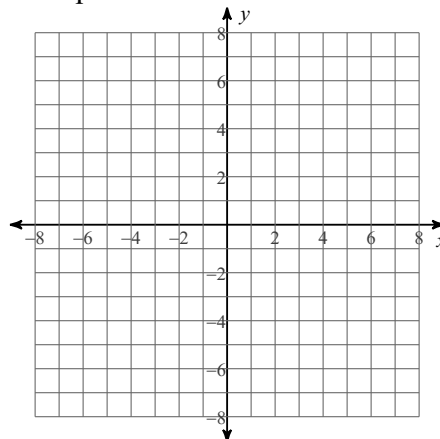7) $f(x) = \dfrac{x^2 - x - 5}{x + 2}$

VA:
Holes:
Oblique:
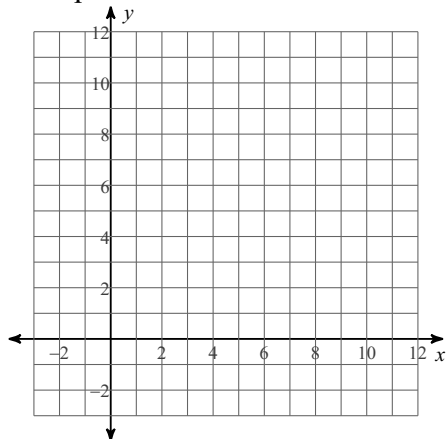
8) $f(x) = \dfrac{x^2 - 2x + 1}{x}$

VA:
Holes:
Oblique:

9) $f(x) = \dfrac{2x^2 - 15x + 27}{x - 5}$

VA:
Holes:
Oblique:

10) $f(x) = \dfrac{x^2 - x - 12}{x - 4}$

VA:
Holes:
Oblique: