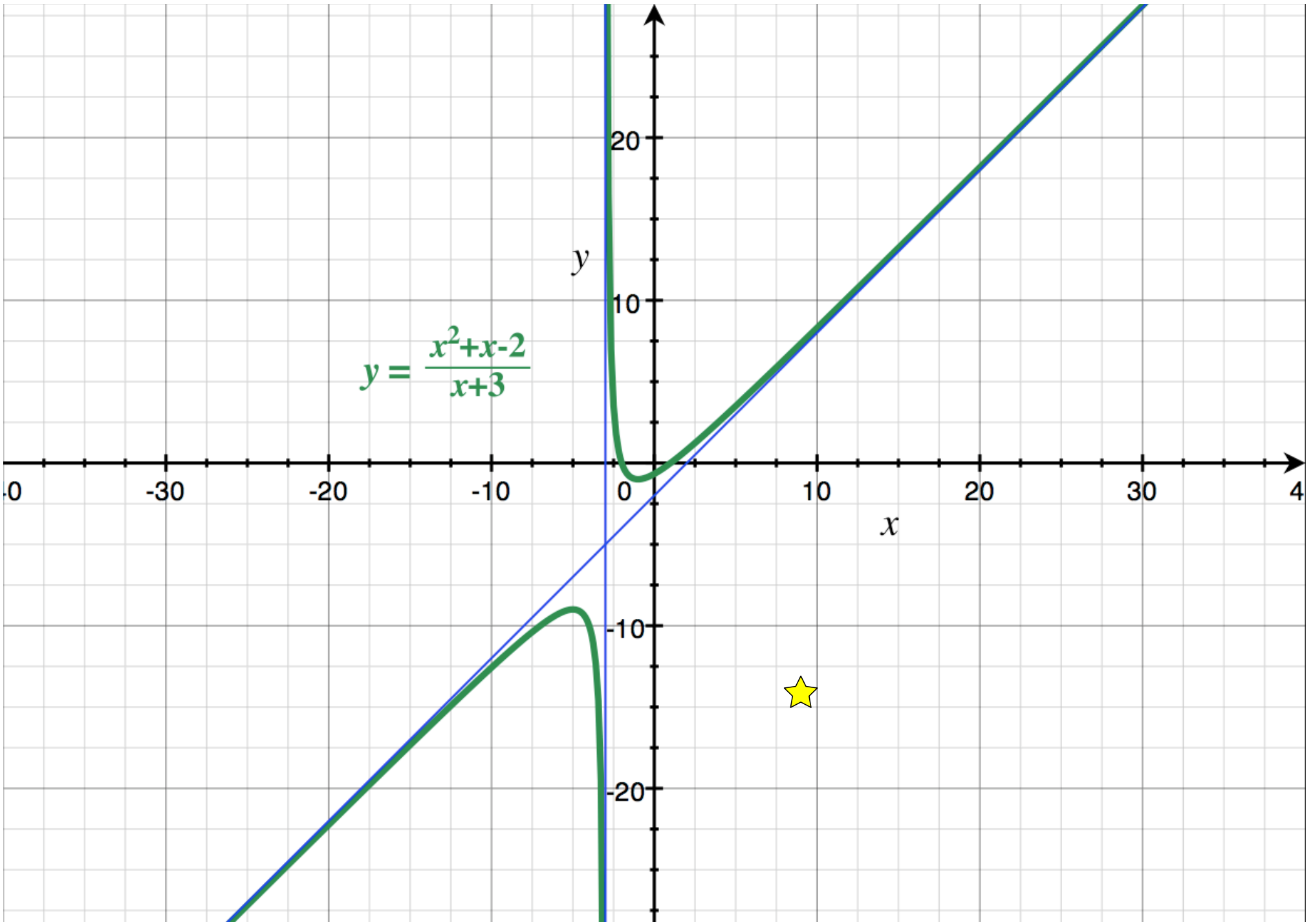
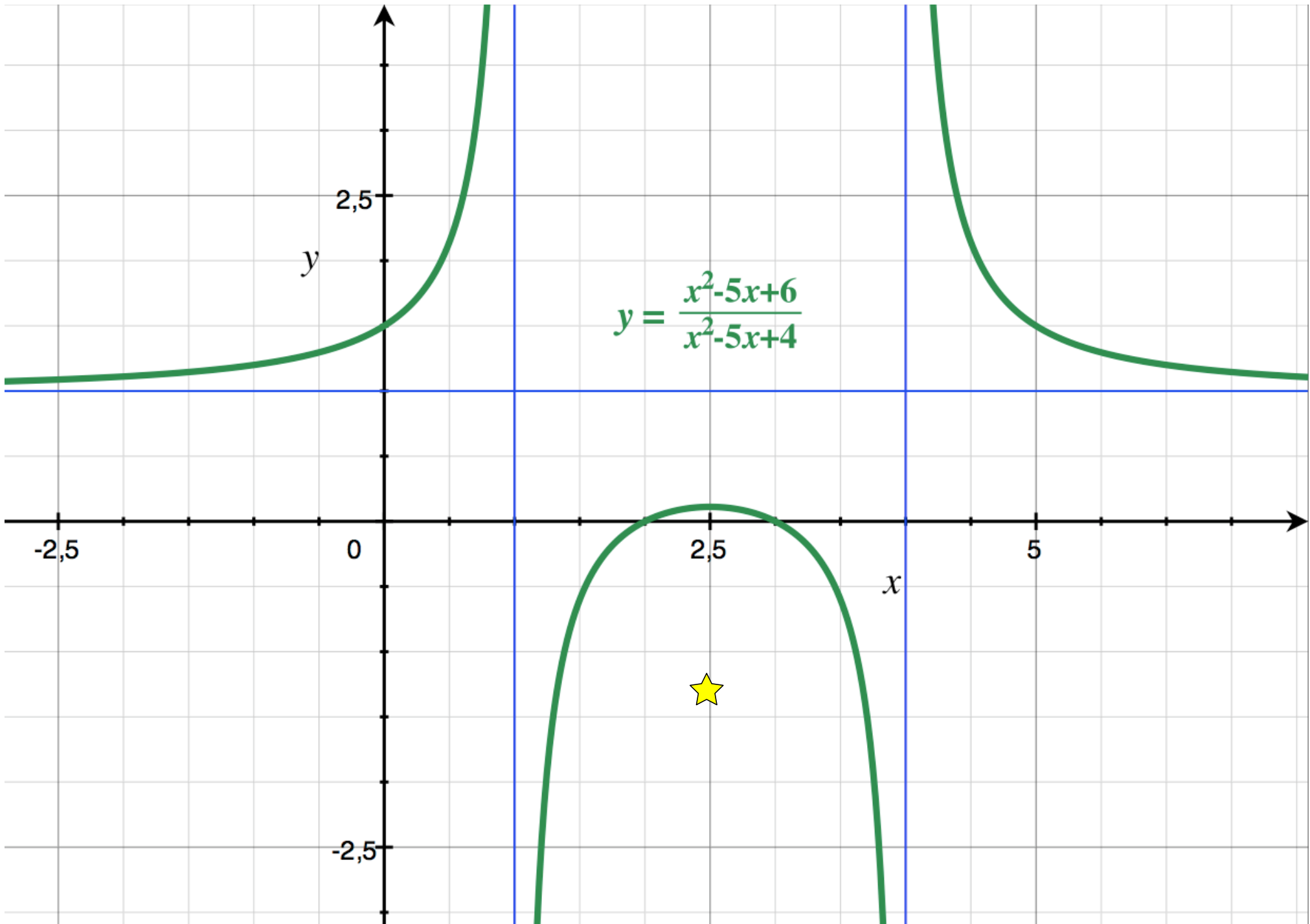
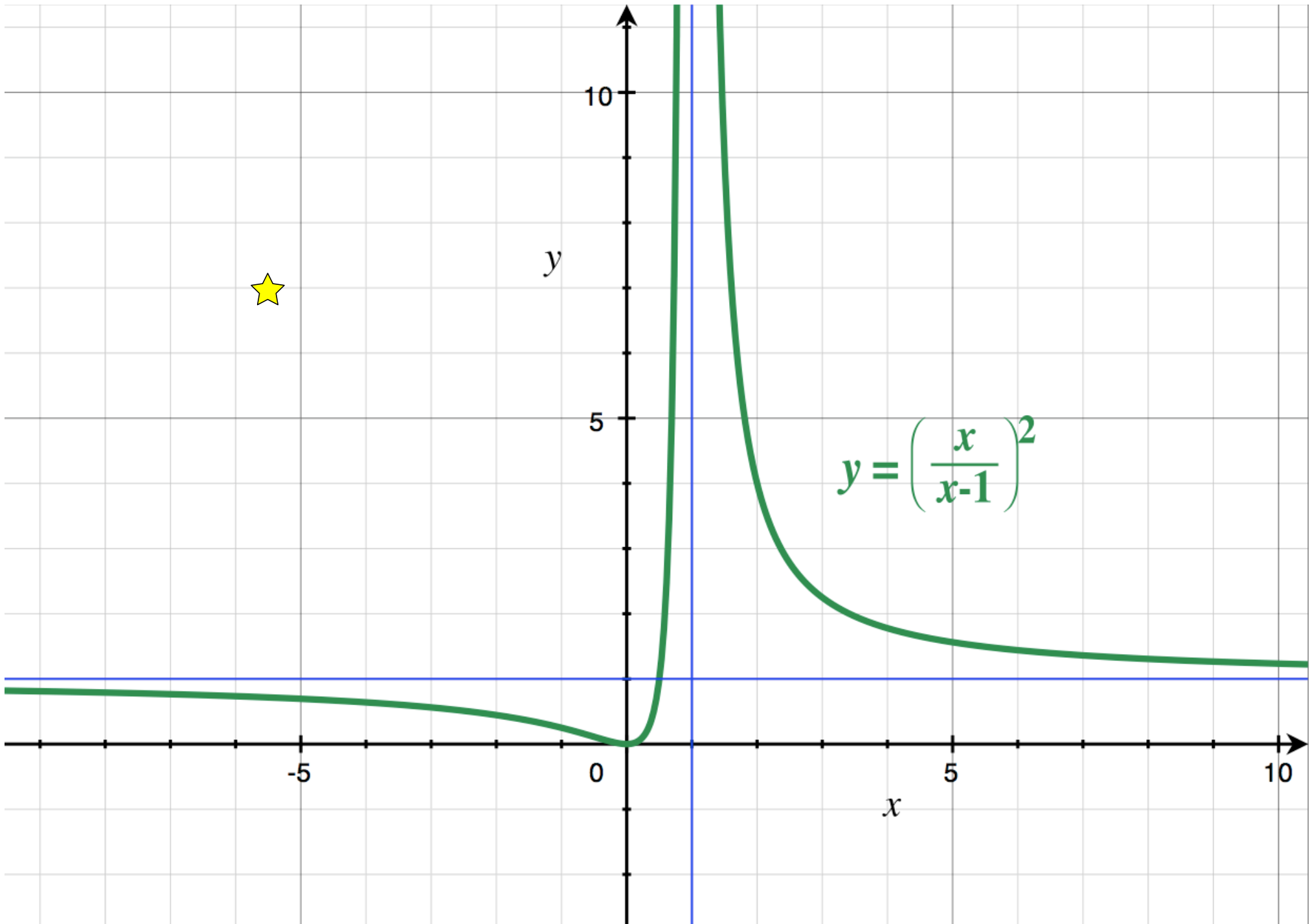


$$y = \frac{x^2+x-2}{x+3}$$







y

$$y = \left(\frac{x}{x-1}\right)^2$$

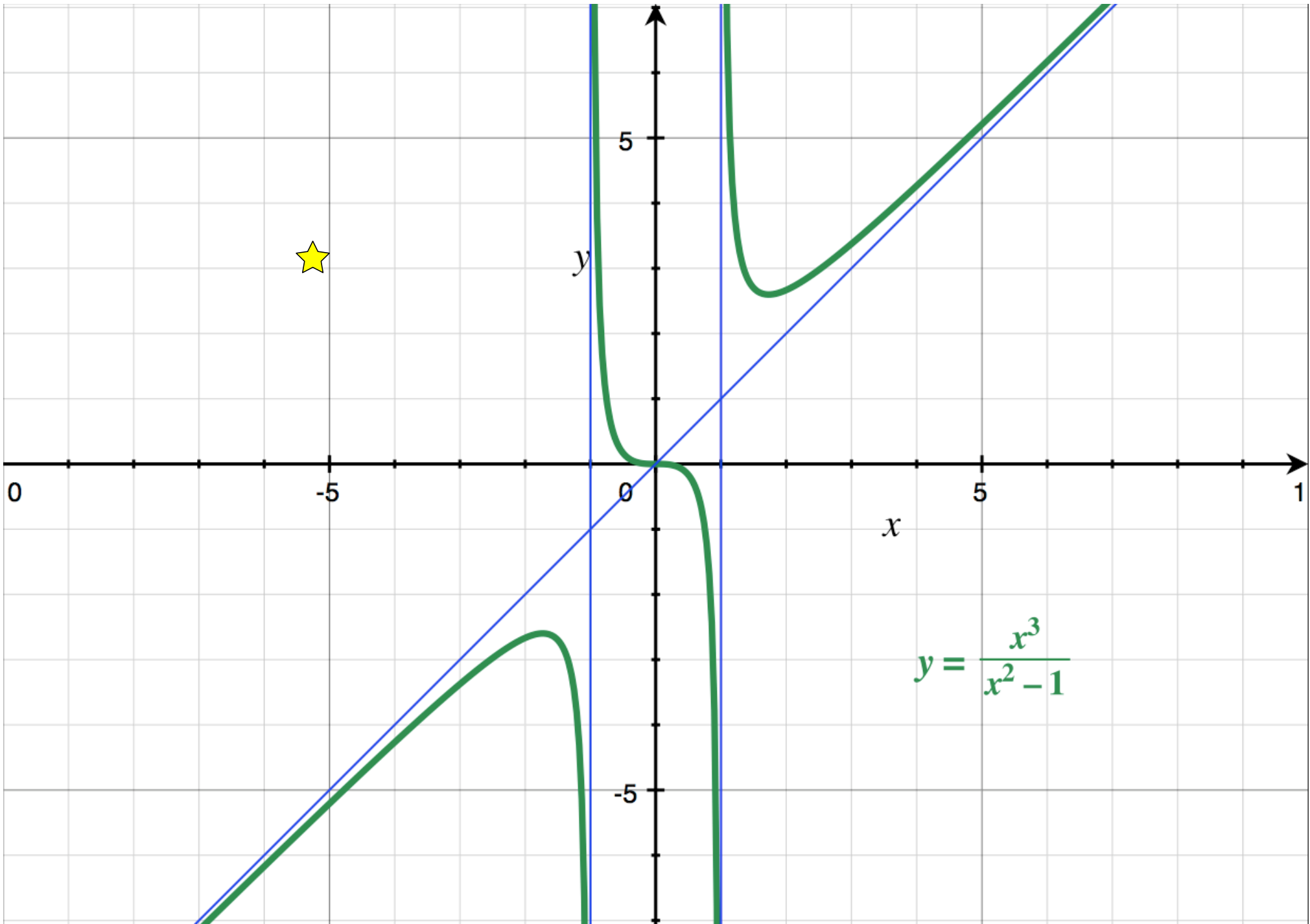
-5

0

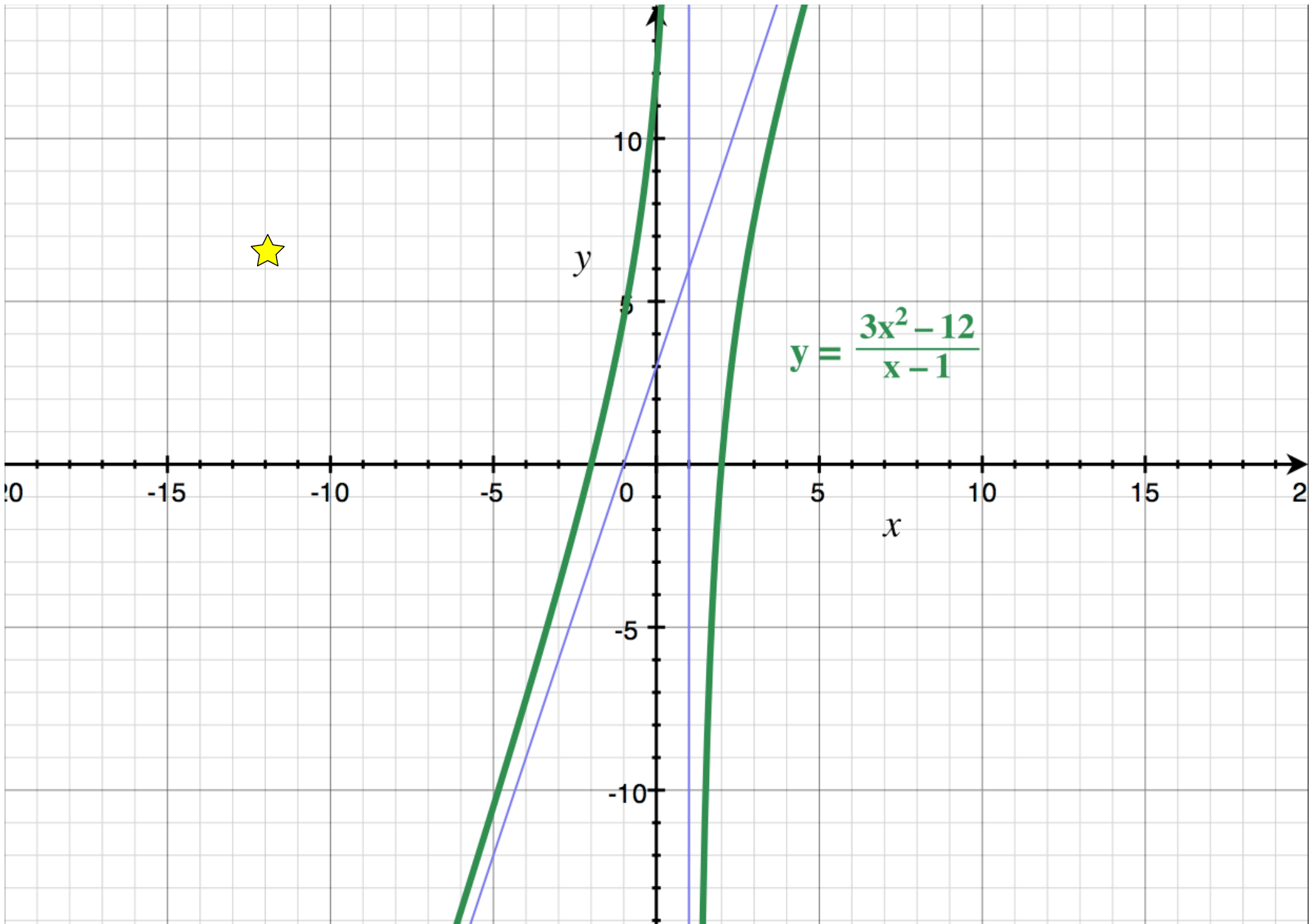
x

5

10



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



$$f(x) = \frac{x^2 + x - 2}{x + 3}$$

$$f'(x) = \frac{x^2 + 6x + 5}{(x + 3)^2}$$

$$f''(x) = \frac{8}{(x + 3)^3}$$

$$f(x) = \frac{x^2 - 5x + 6}{x^2 - 5x + 4}$$

$$f'(x) = \frac{10 - 4x}{(x^2 - 5x + 4)^2}$$

$$f''(x) = \frac{12(x^2 - 5x + 7)}{(x^2 - 5x + 4)^3}$$

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

$$f'(x) = -\frac{2x}{(x - 1)^3}$$

$$f''(x) = \frac{4x + 2}{(x - 1)^4}$$

$$f(x) = \frac{x^3}{x^2 - 1}$$

$$f'(x) = \frac{x^2(x^2 - 3)}{(x^2 - 1)^2}$$

$$f''(x) = \frac{2x(x^2 + 3)}{(x^2 - 1)^3}$$

$$f(x) = \frac{3x^2}{x - 1}$$

$$f'(x) = \frac{3(x - 2)x}{(x - 1)^2}$$

$$f''(x) = \frac{6}{(x - 1)^3}$$