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2)
$$X=0$$
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 $y=0$, $0=\frac{2x^2}{x^2-1}$, $x=0$ (0,0)

3) $f(-x)=f(x)$ - Symmetric about the y-axis

1) $\lim_{x\to x^2} \frac{2x^2}{x^2-1} > 2$ - horizontal asymptote

 $\lim_{x\to \pm 1} f(x) = 0$ - vertical asymptote

 $\lim_{x\to \pm 1} f(x) = \frac{1}{(x^2-1)^2} > 0$
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