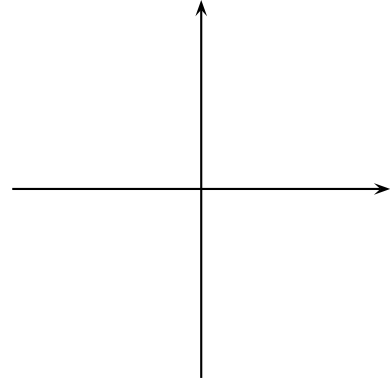


1. Graph  $f(x) = \frac{x^2 - 4}{x - 1}$ . Give equations for and graph using dotted lines all asymptotes including any skew asymptote. (5 points)



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2. Solve the following inequality algebraically:  $\frac{x^2 - 2x + 2}{x - 3} < -2$ . (5 points)

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3. If a 26-inch diameter bicycle tire is turning 130 revolutions per minute as it rolls along the road, how fast is the bicycle traveling in feet per second? (5 points)

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4. A right triangle has a hypotenuse of length 6 and includes an angle of  $28^\circ$ . Sketch the triangle and determine the lengths of the other sides and the remaining angle. (5 points)