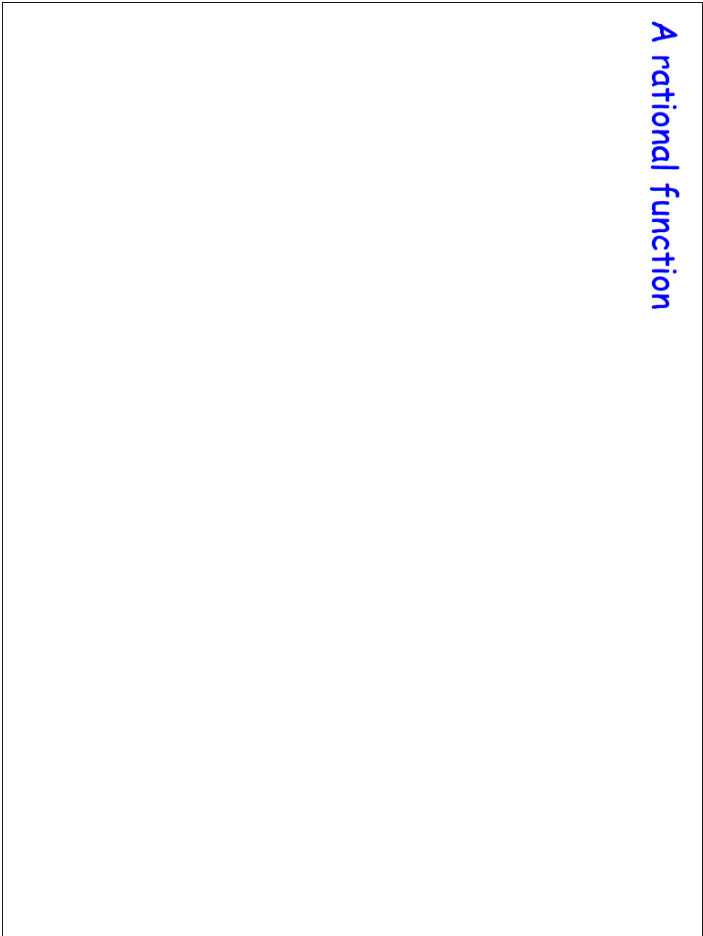
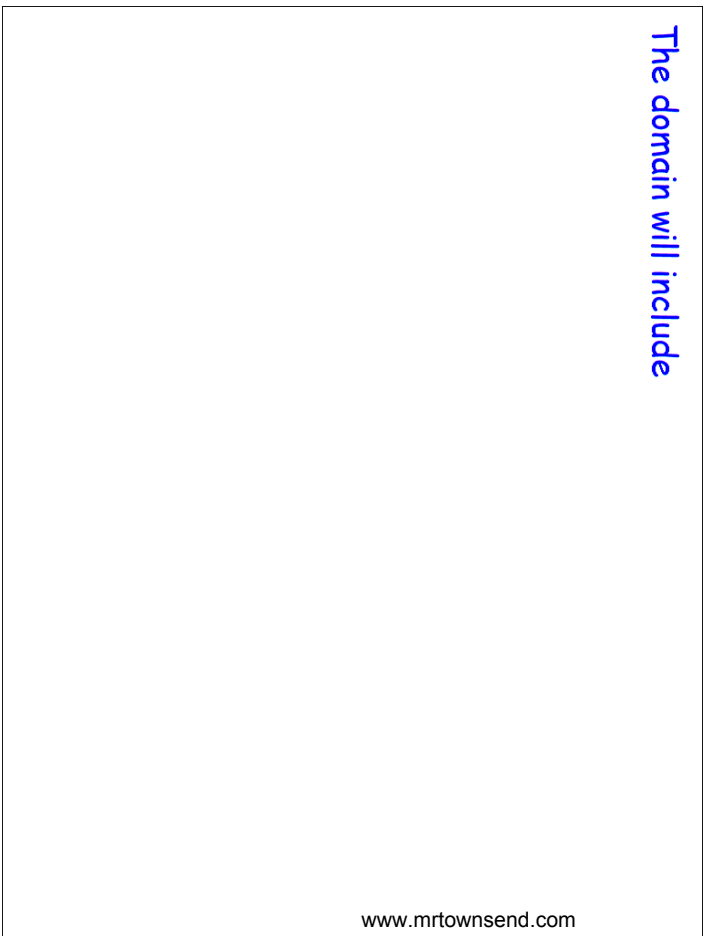


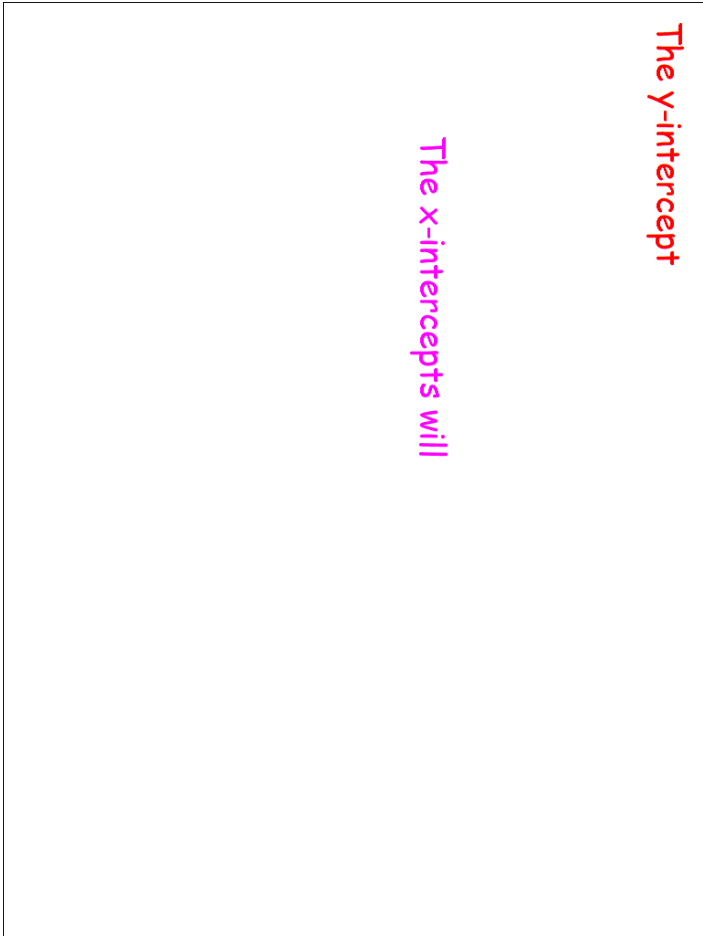
A rational function



The domain will include

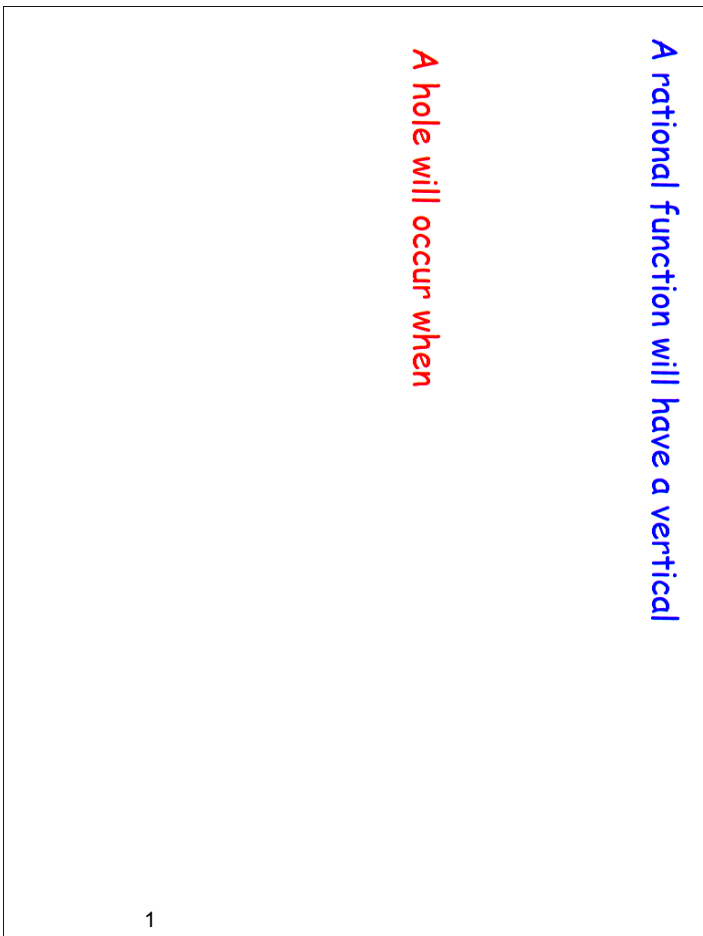


The y-intercept



The x-intercepts will

A rational function will have a vertical



A hole will occur when

End behavior for a rational function

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

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$$f(x) = \frac{x^2 - 3x - 4}{3x - 9}$$

$$f(x) = \frac{x^2 - 2x - 8}{4x^2 - 16x}$$

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