

Generated by ©WeBWorK, http://webwork.maa.org, Mathematical Association of America

## Quiz 4.1 – Analyzing Rational Functions

1. (1 point) —alfredLibrary/AUCI/chapter4/lesson1/quiz/question2pet.pg Let $f(x) = \frac{(x+6)(x+3)^5(x-1)^4}{(x+3)^3(x-1)^5(x-4)^3}$ . Enter the correct values for the requested information. Enter 'None' if necessary, and use a comma-separated list for multiple answers.	(e) Holes at $x =$ 2. (1 point) —alfredLibrary/AUCI/chapter4/lesson1/quiz/graphanalysi Let $f(x) = \frac{x^2 + 16x + 63}{x^2 + 8x + 15}$ .
(a) Domain is all real numbers except $x = $	(a) Domain is all real numbers except $x = \underline{\hspace{1cm}}$ .
(b) $x$ -intercept(s) at $x = $	(b) $y$ -intercept at $y = $
(c) $y$ -intercept at $y = $	(c) $x$ -intercept(s) at $x = $
(d) Vertical asymptotes(s) at $x = $	(d) Vertical asymptote(s) at $x = $