Question 1 *Which of the following are rational functions?*

Select All Correct Answers:

(a) $f(x) = 0$ ✓

(b) $f(x) = \dfrac{3x + 1}{x^2 - 4x + 5}$ ✓

(c) $f(x) = e^x$

(d) $f(x) = \dfrac{\sin(x)}{\cos(x)}$

(e) $f(x) = -4x^{-3} + 5x^{-1} + 7 - 18x^2$ ✓

(f) $f(x) = x^{1/2} - x + 8$

(g) $f(x) = \dfrac{\sqrt{x}}{x^3 - x}$

Feedback (attempt): *All polynomials can be thought of as rational functions.*