2.4.4: Polynomial or Not?

Date: _____

Determine if each of the following equations/graphs represents a polynomial function or not. Justify your reasoning.
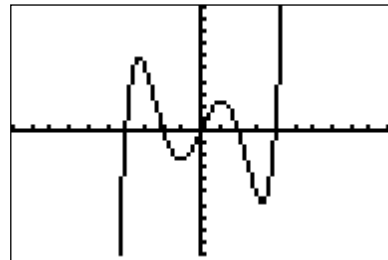
a) $f(x) = 2x^3 + x^2 - 5$
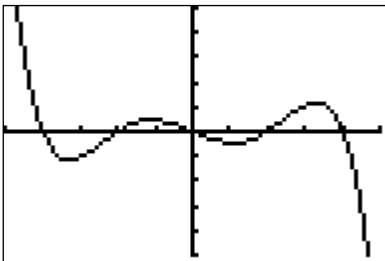
b) $f(x) = \sqrt{x+1}$

c) $f(x) = \cos x$

d) $f(x) = \dfrac{2}{x+3}$

e) $f(x) = x(x-1)^4$

f)

g)

h)

pp. 197–198 1, 2, 5