Before we begin, are there any questions from last day's work?

Today's Learning Goal(s):

By the end of the class, I will be able to:

a) differentiate between the following types of functions: linear, quadratic, cubic, quartic, exponential and sinusoidal

Use Vertical White Boards?

2.4.2: Polynomial Concept Attainment Activity

Date:

2.4.2: Polynomial Concept Attainment Activity	Date:
Examples	Non-Examples
y = x	$y = \sqrt{x}$
y = 2x - 1	$y = 3x^{\frac{1}{2}} - x$
$y = x (x^2 - 4)(x + 2)$	x = -6
y = x ²	$x^2 + y^2 = 16$
$y = (x-2)^2 + 1$	$h(x) = \sqrt[3]{x}$
$y = -x^4 + \frac{1}{2}x^2 - 3$	$y = \sin \beta$
y = -0.2 (4x - 3)(x + 3)	$y = \frac{1}{x - 2}$
$y = x^3 + 2x^2 - x + 11$	$y = 2^x$
y = 4	$y = \frac{x-1}{x^2 - x + 1}$

Today's work: Complete 2.4.3 for the 5 remaining functions.

Complete 2.4.4

Read p.194

Complete pp. 197-198 #1, 2, 5

2.4.4: Polynomial or Not?

Date:

Determine if each of the following equations/graphs represents a polynomial function or not. Justify your reasoning.

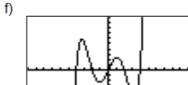
a)
$$f(x) = 2x^3 + x^2 - 5$$

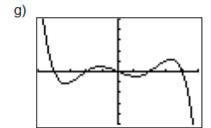
b)
$$f(x) = \sqrt{x+1}$$

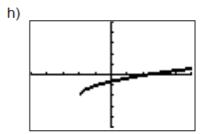
c)
$$f(x) = \cos x$$

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

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







2.4.3: Do you see what I see? - Sample Solutions

