Name:	Date:
PC: Decomposition of Functions	Ms. Loughran

Do Now:

1.

For each function h given below, decompose h into the composition of two functions f and g so that  $h = f \circ g$ .

(a) 
$$h(x) = (x+5)^2$$

(b) 
$$h(x) = \sqrt[3]{5x^2 + 1}$$

(c) 
$$h(x) = 2^{\cos x}$$

(d) 
$$h(x) = \cos(2^x)$$

(e) 
$$h(x) = \frac{\sqrt{x^2 + 1} - 1}{\sqrt{x^2 + 1} + 1}$$