Name:
PCH: Decomposition

Date:
Ms. Loughran

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

1. $h(x)=(x+5)^{2}$
2. $h(x)=\sqrt[3]{5 x^{2}+1}$
3. $h(x)=2^{\cos x}$
4. $h(x)=\cos \left(2^{x}\right)$
5. $h(x)=\frac{\sqrt{x^{2}+1}-1}{\sqrt{x^{2}+1}+1}$
