

Calculus H
Extra Composition

Name _____

Find $f(x)$ and $g(x)$ so that $h(x) = f(g(x))$.

1. $h(x) = \frac{5}{x^2} + 1$

2. $h(x) = (\sqrt{x} + 1)^2$

3. $h(x) = \sqrt{5x+1} + 1$

4. $h(x) = 3^{\sqrt{x+1}}$

5. $h(x) = (\sqrt{x} + 3)^2$

6. $h(x) = \left(\frac{4}{x^2} + 7\right)^3$ For this one find $f(x)$, $g(x)$ and $p(x)$ so that $h(x) = f(g(p(x)))$