

X	2	3	4	9
f(x)	$\frac{\pi}{3}$	3	9	4
f'(x)	7	$\frac{\pi}{4}$	$\frac{\pi}{2}$	-3
g(x)	5	4	-3	2
g'(x)	-4	9	π	$\frac{\pi}{2}$

Given the table above evaluate the given derivatives at the given value

<p>1) Given $h(x) = f(x) + g(x)$ Evaluate $h'(2)$</p>	<p>2) $h(x) = f(x) \cdot g(x)$ Evaluate $h'(4)$</p>
<p>3) Given $h(x) = \frac{f(x)}{g(x)}$ Evaluate $h'(9)$</p>	<p>4) Given $h(x) = [f(x)]^3$ Evaluate $h'(9)$</p>

5) Given $h(x) = x^2 \cdot g(x)$

Evaluate $h'(4)$

6) Given $h(x) = \frac{1}{\sqrt{f(x)}}$

Evaluate $h'(4)$

7) Given $h(x) = f(g(x))$

Evaluate $h'(3)$

8) Given $h(x) = g(f(x))$

Evaluate $h'(9)$

9) Given $h(x) = \frac{2x}{f(x)}$

Evaluate $h'(4)$

10) Given $h(x) = \sqrt{f(2x)}$

Evaluate $h'(2)$

Answer Key

1) 3	2) $\frac{15\pi}{2}$	3) $\frac{-3-\pi}{2}$	4) -144	5) $16\pi - 24$
6) $\frac{-\pi}{108}$	7) $\frac{9\pi}{2}$	8) -3π	9) $\frac{18-4\pi}{81}$	10) $\frac{\pi}{6}$