1. (1 pt) Find the derivative of $h(t) = t\cos t + \sin t$
$h'(t) =$ _____
Answer(s) submitted:

-

(incorrect)

2. (1 pt) Let

$$f(x) = 7\cos x - 9\tan x$$

$f'(x) =$ _____
$f'(\frac{7\pi}{4}) =$ _____

Answer(s) submitted:

-
-

(incorrect)

3. (1 pt) If $f(x) = \frac{3\tan x}{x}$, find $f'(x)$.

_____
Find $f'(3)$.

_____

Answer(s) submitted:

-
-

(incorrect)

4. (1 pt) If

$$f(x) = \frac{\tan x - 3}{\sec x}$$

find $f'(x)$.

_____
Find $f'(2)$.

_____

Answer(s) submitted:

-
-

(incorrect)

5. (1 pt) If $f(x) = \frac{3x^2\tan x}{\sec x}$, find $f'(x)$.

_____
Find $f'(3)$.

_____

Answer(s) submitted:

-
-

(incorrect)

6. (1 pt) Find the equation of the tangent line to the curve $y = 3\tan x$ at the point $(\pi/4, 3)$. The equation of this tangent line can be written in the form $y = mx + b$ where m is: _____ and where b is: _____

Answer(s) submitted:

-
-

(incorrect)

7. (1 pt) Find the 27th derivative of $\sin(x)$ by finding the first few derivatives and observing the pattern that occurs.
$(\sin(x))^{(27)} =$ _____
Answer(s) submitted:

-

(incorrect)

8. (1 pt) Find the derivative of

$w = (t^2 + 15)^{76}$
$\frac{dw}{dt} =$ _____
Answer(s) submitted:

-

(incorrect)

9. (1 pt) Find the derivative of

$w(r) = \sqrt{r^7 + 15}$
$\frac{dw}{dr} =$ _____
Answer(s) submitted:

-

(incorrect)

10. (1 pt) Find the derivative of
$f(x) = e^{9x}(x^2 + 7^x)$
$f'(x) =$ _____
Answer(s) submitted:

-

(incorrect)