

## Derivatives Quiz

For each problem simply take the derivative and move on.

1.  $h(x) = -7x^5 + x^{-2} + 2x$

2.  $R(T) = T^{-1/2} - \frac{1}{\sqrt[5]{T}} + T^{4/5}$

3.  $s = e^\phi \cos(\phi)$

4.  $z = \frac{w^2+7}{w^4+2w}$

5.  $f(z) = \tan(5z + 2)$

6.  $g(x) = \ln(x^2 + 1)$

7.  $h(t) = \frac{2^t}{\sin(t)}$

8.  $p = \ln(r)(r^3 - 3r^2 - r)^4$

9.  $m(x) = \cos(x^2) \sin(x^2)$

10.  $y = (x + \cos(x^2))^{27}$