

Name: _____

Date: _____

Exponential Functions & Evaluating Quiz

Show work to get full credit!

Evaluate:

① $f(x) = \frac{1}{3}(6)^x$ for $f(2)$

② $f(x) = 10(2)^x$ for $f(4)$

③ Finish the table

$$f(x) = \frac{1}{2}(4)^x$$

x	f(x)
-1	
0	
2	

Evaluate the following function
given the x values

$$f(x) = 2x^2 + 2$$

④ $f(4)$

⑤ $f(-3)$

⑥ $f(0)$

⑦ $f\left(\frac{1}{2}\right)$

Evaluate:

$$f(x) = x^2 - 2x$$

$$g(x) = 3x + 4$$

⑧ $f(-2)$

⑨ $g(\frac{1}{3})$

⑩ $f(2) + g(3) = \underline{\hspace{2cm}}$

EC1

$$f(x) = \frac{1}{5} \cdot \left(\frac{1}{3}\right)^x \quad \text{for } f(3)$$