

HW 10

1. Evaluate the following expressions:

(a) 5^{-3}

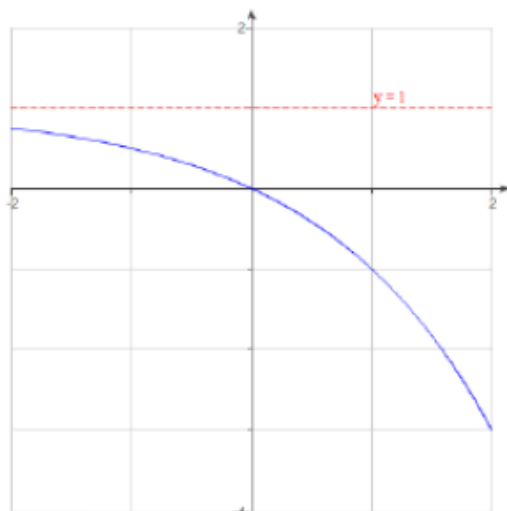
(b) $64^{\frac{2}{3}}$

(c) $27^{\frac{2}{3}}$

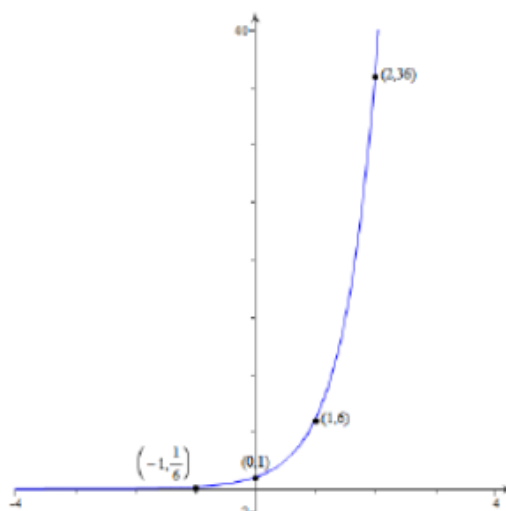
(d) $(\frac{1}{3})^2$

2. Suppose $g(x) = 2^x + 4$, What is $g(-1)$? If $g(x) = 12$, what is x ?

3. Determine the exponential function whose graph is given.



(a)



(b)

4. Solve the following equations:

(a) $5^{x^2} = 125^x$

(c) $e^x = e^{3x+18}$

(b) $6^{x^2-13} = 36^{6x}$

(d) $e^{x^2} = e^{9x} \cdot \frac{1}{e^{18}}$

5. Identify the graph of the equation $f(x) = 2e^{-x}$.

