7. [10 points] The following table gives some values of the two functions f(x) and g(x).

x	2	8
f(x)	20	160
g(x)	4	12

**a.** [5 points] Suppose the function f(x) is an exponential function. Find a formula for f(x). Your answer must be in **exact form**. Show all your work.

$$f(x) = \underline{\hspace{1cm}}$$

**b.** [5 points] Suppose that g(x) is a power function. Find a formula for g(x). Your answer must be in **exact form**. Show all your work.

 $g(x) = \underline{\hspace{1cm}}$