College Algebra Worksheet (2)

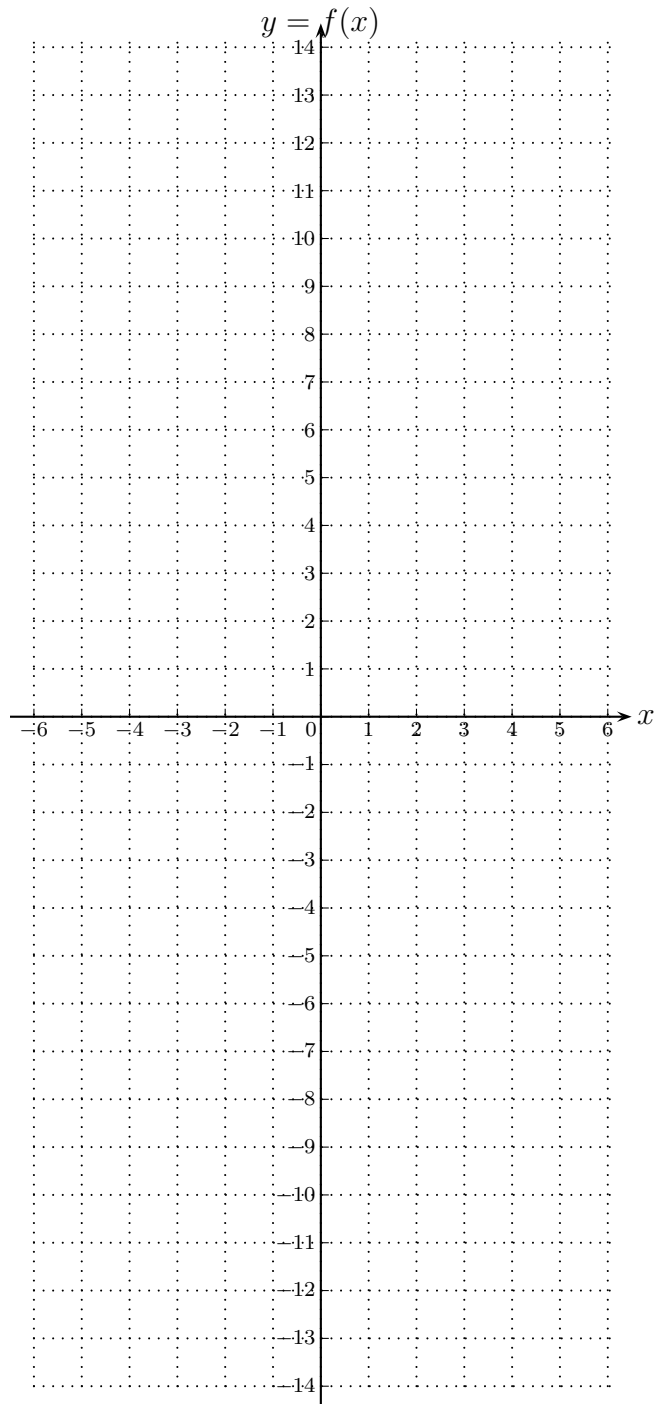**Graphing Exponential Functions**

1. Let Let $f(x) = -5 + 2^{3-x}$

   (a) What are the domain and range of f?

   (b) $\lim_{x \to +\infty} f(x) =$

   (c) $\lim_{x \to -\infty} f(x) =$

   (d) Find the x and the y intercepts.

   (e) Plot the intercepts and any asymptotes and graph f.

$y = f(x)$

2. Let $f(x) = 3 - (3)2^{x+1}$

(a) What are the domain and range of f?

(b) Find any vertical or horizontal asymptotes.

(c) Find the x and the y intercepts.

(d) Graph f.

$y = f(x)$