Graph the function $f(x)$ with the following properties.

A. The domain of f is $(-\infty, 3) \cup (3, \infty)$.

B. The x-intercept is at -3, and the y-intercept is 2.

C. The function is not odd or even.

D. The asymptotes are described by the following limits:

$$\lim_{x\to-\infty} f(x) = -2, \quad \lim_{x\to\infty} f(x) = -2, \quad \lim_{x\to3^-} f(x) \text{ DNE } (+\infty), \quad \lim_{x\to3^+} f(x) \text{ DNE } (-\infty).$$

E. $f(x)$ is increasing on its entire domain.

F. The only critical number is $x = 3$, because the derivative is not defined when $x = 3$.

G. The function is concave up on $(-\infty, 3)$ and concave down on $(3, \infty)$.