Given the formula to the right, find the derivative of the following:

1. y = x2
2. g(x) = x3
3. v = 2
4. f(x) =
5. z =

Evaluate the limits of the following:

1. lim

h→0

1. lim

x→∞

1. lim

x→-∞

1. lim

x→-∞