In 1996, there were 2573 computer viruses. During the next 7 years, the number of incidents increased by about 92% each year. What is the exponential growth model giving the number n of incidents t years after 1996.

In what year will there be more than 5,000 incidents?

$$5000 = 2573(1+.92)^{t}$$
 In the year 1997
 $\frac{5000}{2573} = 1.92^{t}$
 $\log_{1.92}(\frac{5000}{2573}) = E$
 $\log_{1.92}(\frac{5000}{2573}) \approx 1.013$

An exponential function goes through the points (3, 64) and (2, 16) write a model for the function.

function.
$$y = ab^{x}$$

$$(ay = ab^{3})$$

$$(ay =$$

A power function goes through the points (3, 3) and (6, 12) write a model for the function.

$$Y = ax^{3}$$

$$12 = a(6)$$

$$\frac{17}{6} = a$$

$$\frac{17}{6} = a$$

$$\frac{3}{12} = (\frac{3}{6})^{3}$$

$$\frac{17}{12} = a$$

$$\frac{1}{4} = (\frac{1}{2})^{3}$$

$$\frac{1}{3} = a$$

$$\frac{1}{3} = a$$

$$\frac{1}{3} = a$$

$$\frac{1}{3} = a$$

$$\frac{1}{3} = a$$