

1.2

#17

exponential

$$y = y_0 a^x \quad \begin{matrix} (0, 3) \\ (2, 12) \end{matrix}$$

$$3 = y_0 a^0 = y_0$$

$$12 = y_0 a^2 = 3a^2 \quad \text{so} \quad a = \pm 2$$

$$a > 0$$

$$\boxed{y = 3(2^x)}$$

Common mistakes:

- Show how you got the values for both y_0 & a

- this was an exponential equation $\rightarrow y = y_0 a^x$