

'A Ferocious Forest Fire'

a) $A = \frac{k}{t}$

$$2.6 = \frac{k}{5.5} \quad (1)$$

$$k = 14.3 \quad (1)$$

b) A positive asymptote graph (1)
Asymptotes at $x = 0$, $y = 0$ (1)

c) When $t < 1$, the area of the forest is very large, which is not a realistic model. (1)

d) Use an exponential decay model rather than an inverse proportionality model. (1)