

Logs and Exponentials 2

- ① a) $x=4$ b) $x=20736$
- ② a) $x=3.25$ b) $x=0.31$ c) $x=-0.92$ d) $x=-0.41$
- ③ $a=pq$
- ④ $(2.2, 0)$
- ⑤ a) $a=1, b=3$ b) sketch
- ⑥ a) sketch b) $(-2, 0)$ and $(0, -8)$
- ⑦ a) $h(g(x)) = \log_3(3-x)$
 $h(f(x)) = \log_3(x^2 - 10x - 3)$
b) $x=6$ and $x=-5$
- ⑧ $a=2$
- ⑨ $y=10x^2$
- ⑩ $K=2.51$ $n=-\frac{1}{3}$
- ⑪ a) $K=0.067$ b) Yes he can use it ($P_t = 38.2$ psi)
- ⑫ a) $M=409.4$ grams b) $t=34.7$ years c) sketch