1.	exponential
2.	When solving exponential equations, the exponents can be set equal once a common base is found. If the bases are not the same, try solving the equation by taking a logarithm of each side. When solving logarithmic functions, each side of the equation can be exponentiated to obtain an equation with no logarithms.
3.	The domain of a logarithmic function is positive numbers only, so any quantity that results in taking the log of a non-positive number will be an extraneous solution.
4.	x = y
5.	x = -1
6.	x = 1
7.	x = 7
8.	x = 1
9.	$x \approx 1.771$
10.	$x \approx 2.173$
	5
11.	$x = -\frac{5}{3}$
12	$x = \frac{1}{2}$
12.	$x = \frac{1}{2}$
	0.025
13.	$x \approx 0.255$
	0.052
14.	$x \approx 0.253$
15	
15.	$x \approx 0.173$
16	v ~ 0.906
16.	$x \approx 0.896$
17	shout 17.6 years ald
17.	about 17.6 years old
18.	about 6967 years
19.	about 50 min
20.	about 20 min