Heduin R B de Morais BrockU ID: 6967483 Campus ID: hr19ut Math 1P01 - Lab #04 Assingment #01 - Maple

Question 27

Graph the given functions on a common screen. Explain how these graphs are related.

Let's define each of the given functions, as follows:

$$y2 := x \mapsto 2^x \tag{1}$$

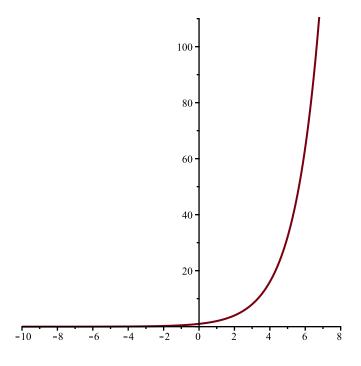
$$ye := x \mapsto e^x$$
 (2)

$$> v5:=x->5^x$$

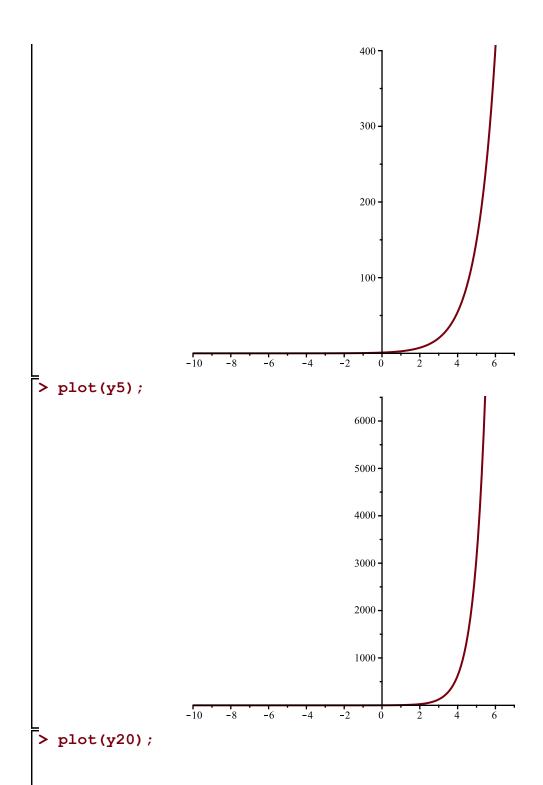
$$y5 := x \mapsto 5^x \tag{3}$$

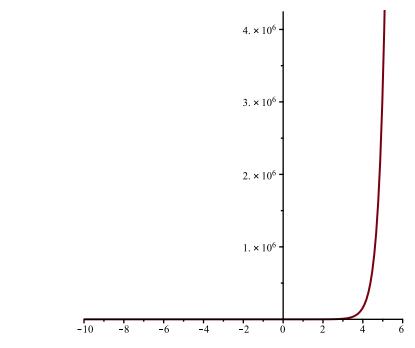
$$y20 := x \mapsto 20^x \tag{4}$$

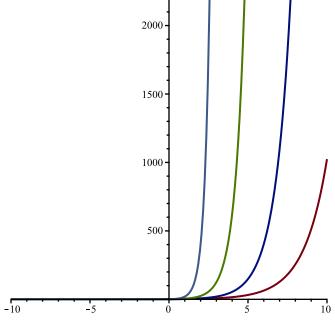
Then, let's plot them, one by one:



> plot(ye);







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Let's plot all of them together with a zoom focused on y-intercept:

with (plots):
> plot(\{y2(x), ye(x), y5(x), y20(x)\}, x=-0.002..0.002);
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