$$f(x)=2e^{3x}-1$$

Find the range of $f\left(x\right)$.

Begin by sketching $f\left(x\right)=e^{x}$



Now sketch $f\left(x\right)=e^{3x}$



Continues overleaf…

Now sketch $f\left(x\right)=2e^{3x}$



Now sketch $f\left(x\right)=2e^{3x}-1$



Now state the range of y values that the function takes.

Now try $f\left(x\right)=2e^{3x-1}$

Now try $f\left(x\right)=\left|2e^{3x-1}\right|$

Now try $f\left(x\right)=2e^{\left|3x-1\right|}$

Now try $f\left(x\right)=2e^{\left|3x\right|}-1$