

a) find the equation of the rangery
to $y = e^{2x}$ at the point (01) = $3e^{2x}$ .
equation of tangent = y-y1=n(x-x1)
×1 4.
(0,1) $y-1=a(5c-0)$
$y_{-1} = 2x$
az-y-120.
<u> </u>
(b) differentiate
i) x sun x.
$\cdot x \cos x \cdot x \sin x$
$Z \qquad \qquad$
x=2
4 / 45° 1 60° × × = ===============================
n the diagram XYZ
is a triangle where <74x=45°
and LZ×4~60°
find the exact value of for
the ratio of

