DEC 2 Refresher

First, check if the BJT is in cutoff: * VBE > 0.7 V , IB > 0 A
assumption

:. VBB-VBE = IB = 1.25 - 0.7 = 55MA

: not in wtoff.

To be in forward active mode, VCE 7, 0.2 V.

: not in forward active made; we are in saturation mode.

To push into forward active, let Ver = 0.3 V, backsolve for VBB.

:. VBB can be within the range, 0.71 < VBB < 1.17 [V] to keep in forward active mode.