Question 2

b. <u>Technical</u> :

Target $= 30 + 20(4.0) + 0.07(27) + (-30)(1) + 0.01(4.0)(27) + 10(4)(1)$
$= 30 + 80.0 + 1.89 - 30 + 1.08 + 40$
$= 120 + 2.97$
$= 122.97$

<u>Non - Technical</u> :

Target $= 30 + 20(4.0) + 0.07(27) + (-30)(0) + 0.01(4.0)(27) + 10(4)(0)$
$= 30 + 80.0 + 1.89 - 0 + 1.08 + 0$
$= 110 + 2.97$
$= 112.97$

a. When Age $= 27$ and GPA $= 2.0$

Technical $= 30 + 20(2.0) + 0.07(27) + (-30)(1) + 0.01(2.0)(27) + 10(2.0)(1)$
$= 62.43$

Non-technical $= 30 + 20(2.0) + 0.07(27) + (-30)(1) + 0.01(2.0)(27) + 10(2.0)(1)$
$= 72.43$

Age $= 27$, GPA $= 2.5$

Technical : 77.565
Non-technical: 82.57

Age $= 27$, GPA $= 3.0$

Technical : 92.70
Non-technical: 92.70

Age $= 27$, GPA $= 3.5$

Technical : 107.84
Non-technical: 102.84

when GPA is 3.5 and 4.0 technical positions earn more
on average than non-technical positions. Therefore, answer
3 is correct.