ANSWER 4

(a) filled value at
$$x=7 = is$$
 $\hat{y}(7)$
 $\hat{y} = 18 - 0.4x$
 $\hat{y}(7) = 18 - 0.4(7) = 18 - 2.8 = 15.2$

: fitted value at x=7 is 15.2

(b) Residual at
$$x = 3$$
 and $y = 20$
is $20 - \hat{y}(3)$
 $= 20 - 18 + 0.4(3)$

$$=$$
 2 + 0.4(3) = 3.2