

$(10, 18) \rightarrow (10, 19)$

$$1. f(A) = (1-A)(f(10, 18)) + A(f(10, 19)) = (.8)(3) + (.2)(4) = 3.2$$

$$f(A) = (.8)(6) + (.2)(8) = 6.4$$

$(11, 18) \rightarrow (11, 19)$

$$f(A) = (.8)(3.2) + (.2)(6.4) = 5.44 \quad \text{at } (10.7, 18.2)$$

$(10, 18.2) \rightarrow (11, 18.2)$

2. CORNERS: $(14, 11)$, $(14, 23)$, $(20, 11)$, $(20, 23)$

$$3. [(17, 16) - (14, 20)] \cdot [(15, 11) - (14, 20)] = (3, -4) \cdot (1, 1) = 23$$

$$[(17, 16) - (15, 11)] \cdot [(20, 13) - (15, 11)] = (2, 5) \cdot (-2, 5) = 21$$

$$[(17, 16) - (20, 13)] \cdot [(18, 23) - (20, 13)] = (-3, 3) \cdot (-10, -2) = 24$$

$$[(17, 16) - (18, 23)] \cdot [(14, 20) - (18, 23)] = (-1, -7) \cdot (3, -4) = 25$$

ALL SIGNS ARE THE SAME, THUS $(17, 16)$ IS

IN THE QUADRANT.