Nama: Andri Firman Sapotra Pertemuan 9 Date . . Mafematika Diskrit NIM: 2010 11402125 1. Diuetahui F(x) adalah suatu Fungsi 49 memenuhi f(x+y) = x + f(y) Jan F(0) = 3.Nilai Jan f(120) adalah... f(0) = 3f(x+0) = x + f(0)F(x) = x + 3f(120) = 120 + 3 = 123 2. Jika F(xy) = F(x+y) dan F(5) = 5, Maka nilai dari F(105) adalah f(105) = f(5\*21) = f(5+21) = f(26)f(26) = f(2\*13) = f(2+13) = f(15)f(15) = f(3 \* 5) = f(3 + 5) = f(8)F(8) = F(2\*4) = F(2+4) = F(6)F(6) = F(2 \* 3) = F(2+3) = F(5)F(5) = 551× H-= (x) (0°) Responsible Entry 102 10 F+(1206)0=++x4-5- FLX4- = ((D) 6) 0 1 + x H - = ((x)) 5 H + 2CH - - (X) 6

61 15 753

HIME SERIOISINGOUNCE

The Branch

3. Directahui f(x) = 3x - 5 dan g(x) = 2x, Maria tenturaniah rumus  $(f^{o}g)(x)$  dan  $(g^{o}f)(x)$ ...

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$$f(x) = 3x - 5$$

FIRE END WALLE WAS TON

$$-(f^{\circ}9)(x)$$
  
 $-(f^{\circ}9)(x) = f(g(x))$ 

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$$(f^{\circ}9)(x) = 3(9(x)) - 5$$

$$(F^{\circ}9)(3c) = 3(2x) - 5$$

$$(f^{\circ}9)(x) = 6x - 5$$

$$-(9°f)(x)$$

$$-(9°f)(x) = 9(f(x))$$

$$(9^{\circ})(x) = 2(3x-5)$$

4. Misai fungsi komposisi  $(f^{\circ}g)(x) = -4x+7 \operatorname{Jan} f(x) = 2x+3, \operatorname{fungsi} g(x)$ .  $(f^{\circ}g)(x) = F(g(x))$ 

$$-4x+7=2(9(x))+3$$

$$2(9(x)) = -4x + 7 - 3$$