Nombre: Fernanco Vivanco CUXSO. 12 "B" ITEN fecha: 19-05-2019 Encuentre:  $1.f(x)=x+3, q(x)=x^2$ a) (f+g)(3) b) (f-g) (3) 6) (f-g) (x) = x+3-x (f-g) (3) = 3+3-3 (f-g) (3) = -3, a) (f+q) (x)= x+3+x2 c) (fq) (3) d) (f/g) (3) (f+91(3)=3+3+32 (P + 9) (3) = 15, 0) (f/g) (x)= x+3 c) (fa)(x) = (x+3)(x9) (fg)(3)=(3+3)(32) la] (3) = 54, (f/q)(x) = 3+3(f/g) (3) - 4 Encuentre: a) (f+g) (x) (f-g) (x), (fa) (x) (f/g) (x) 6) el dominio de (++9), (+-9) v (+0) c) el dominio de fra , g(x)=x 7- f(x) = 2X a) (++g) (x)= 2x + x+5 b)(fxg) x-4>0 x>4 X+5>0 X>-5 Dom (ftg)=42x>-5 (f-9) (x) - 2X (f-g)x-430 x+520 x>4 x>-5 (2×) (X) Dom (A-q) - 42x >-5 (f/a) (x)= 2X (fg) x-4>0 x+5>0 X-4 2X X >4 1+5 X-4 X Dom(fg)- 441>-5 X+5 c) f/g) x-4>0 Dom (flg) = 42x>0

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15. f(x)=2x2+3x-4, 9(x)=2x-1 a) (fog) (x) = 2x2+3x+4 6) (gof) (1=2x,-1. =2(2x2+3x-14)+1 2 (2x -1) 2 x 3 (2x-1)-4 = 2 ([x2-4x+1] +6x-3-4 = 4x2+6x-8-1 = 4x2 - 21x +5 4x 4+6x -9. c)f(q(-1)) = 2x43x-4 = 2(2x-1)2+3(2x-1)-4 0) 9/9(21)= 2x-1 = 2(2(-2)-1)2+3(2(-2)-1)-9 = 2 (2x 2+3x+4)-1 = 2(1(13)+3(3)+1)+1 + 50-19 -2(23)cn 31. - 45  $e(x) = x^3 + 2x^2 + q(x) = 3x$ a) (fog) (x) = x3+2x5 b) (gof) (x1=3x  $= 3(x^{3} + 2x^{2})$  $= 3x^{3} + 6x^{2}$ = (3x)3+2(3x)2 = 27 x3 + 118 x2 C) = ( -1) = x3+2x2 = (3x)3+2(3x) U) (a (f (3)) = 3\* = (3(-2))3+2(3(-2))3 3 1x3+2x2 3 ((3)3+2(8)2) 216 +77 = 288 = 3 (27+18) = 3 (45) Encuentre = 135, blaget (x) y Dom a) (fog) (x) y Dan , g(x) = x2+2x 22. EW- JX-15 a)(fog)4) = Vx-15 x2+1x-15 >0 (x+5)(x-3)>0 = V(x2+2x)-15 x +5 20 x -320 2 2-5 Vx2+2x-15. Dam (fog)(1) = -5 < x > 3 6) (gof) (x) = x2+2x X-15 30 = ( 1x-15) +2(Vx-15 > 15 = x-15 + 2 Vx 15, Dam (got) (x) = x ≥ 15

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f(x) - x+2, g(x) - + 50000 4+4. x-1 a) (fog)(x)= x+2 10) (gof) (x)= x-5 3/4/×14 (<del>x+4</del>) +2 12-51-1 X+41 X-5+2(X+4) X+4 X-5-(X+4) X+4 = 2+2-5(x-1) x +2+4(x-1) 3 \* +3 = 4+7 2 \*\*\* 39 65 1 25x-200 x+4 X-1 (3++3) (++4) (+++++) (x+4+ 1-9) WAT (54-1) 3x +3 = -4x+7 -9 5 5x-2 0 Dom: Dom: XETZ > 2/5 XEIR 5 x - 2 > 0