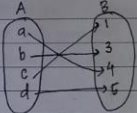


Date: _____

☐ Nis : 4800425
☐ Nama : Risa Nurhanipah
☐ Rombel : RPL XII-1
☐ Rayon : Wilkrama 5

☐ 1. Relasi dan fungsi
☐ • Sifat dan jenis fungsi
☐ • Fungsi komposisi

☐ 2. a. Benar d. Salah
☐ b. Salah e. Benar
☐ c. Salah f. Benar

☐ 3. 
 $\{(b,3), (a,4), (c,1), (d,5)\}$

☐ 4. $(f \circ g)(x) = 3x - 7$
☐ $f(x) = 3x + 8$
☐ $g(x) = ?$
☐ $f(g(x)) = 3x - 7$
☐ $3(g(x) + 8) = 3x - 7$
☐ $3(g(x)) = 3x - 15$
☐ $g(x) = \frac{3x - 15}{3} = x - 5$
☐ $g(2) = 2 - 5 = -3$

Bambu

Date: _____

☐ 5. Dik $(f \circ g)(x) = x^2 - 2x + 3$
☐ $g(x) = x - 1$
☐ $f(g(x)) = ?$
☐ Jawab:

☐ $(f \circ g)(x) = f(g(x))$
☐ $x^2 - 2x + 3 = f(x-1)$
☐ Misal $\rightarrow x-1 = p \rightarrow x = p+1$
☐ $f(x-1) = x^2 - 2x + 3$
☐ $f(p) = (p+1)^2 - 2(p+1) + 3$
☐ $f(p) = p^2 + 2p + 1 - 2p - 2 + 3$
☐ $f(p) = p^2 + 1 - 2 + 3 = p^2 + 2$
☐ $f(p) = p^2 + 2$
☐ $f(5) = 5^2 + 2$
☐ $f(5) = 25 + 2 = 27$

☐ 6. Dik $f(x) = 2x - 3$
☐ $g(x) = x^2 + 5$
☐ $(g \circ f)(2) = ?$
☐ $(g \circ f)(x) = (g \circ f)(x)$
☐ $= g(2x-3)^2 + 5$
☐ $(g \circ f)(x) = 4x^2 - 12x + 9 + 5$
☐ $(g \circ f)(2) = 4(2)^2 - 12(2) + 14$
☐ $= 16 - 24 + 14$
☐ $(g \circ f)(2) = 6$

Bambu