Nama: wisnu raga

Kelas: XI ipa 2

No abs: 29

Jwaban ujikompetensi 2

x5 x4 x3 x2 x

1. 2x3 – x + 8x3 + 5 untuk x =2

Cara 1 -> 2.23 – 22 + 8.2 + 5

=2.8 – 4 + 16 + 5

=33 (c)

Cara 2 -> 2 2 -1 8 5

4 6 28 +

2 3 14 33

1. P(x)= x4 + 2x3 – 5x2 + x – 4 untuk p(-3) adalah

Cara 1-> -34 + 2.-33 – 5.-32 + (-3) – 4

=81 – 54 -45 – 7

= 25 (e)

Cara 2 -> -3 1 2 -5 1 -4

-3 3 -12 -21 +

1 -1 -2 -11 -25

1. P(x)= 2x4 - x3 – 6x2 + 5x – 4 untuk p() adalah

Cara 1->2. 4 - 3 – 6. 2 +5. – 4

=

= -3 (c)

Cara 2 -> 2 -1 -6 5 -4

1 0 -3 1 +

2 0 -6 2 -3

1. f(x) = 2x3 - 4x2 + 7x – 5

f(3) + f(-1) =..

f(3) = 2.33 - 4.32 + 7.3 – 5

=34

F(-1) = 2.-13 - 4.-12 + 7.-1 – 5

=- 2 – 4 – 7 – 5

=-18

f(3) + f(-1) =34 – 18

=20 (D)

1. nilai polinomial -172 untuk x = -4 adalah

x4 + 4x3 - 10x2 + 6x + 12 (e)

1. p(2) =24 - 2.23 + 4.22 – 8

=16 - 16 + 16 – 8

= 8

q(2) = 2.24 - 23 – 5.22 + 3.2 + 12

=32 – 8 -20 + 6 + 12

=22

… r(x) =p(X) – q(x)

= 8 – 22

=-14 (d)

1. x4  + ax3 - 5x2 – x + 4 untuk x=-1 adalah 7 nilai a=…

p(-1)= -14  + a.-13 – 5.-12 – x + 4

-7 = 1 + a.-1 – 5 –(-1) + 4

-7 = 1 + a.-1

-8 =a.-1

a = 8 (c)

1. p(-2) = -24 + 4.-23 n.-22 - 5

-29 =16 – 32 -2n – 5

2n= 8

n= 4

… p(-1) = -14 + 4.-13 4.-12 - 5

=1 + 4 – 1

= 4 (c)

1. f(x)= 5x3 + bx2 + 2 dan 3f(3) +2 =305, nilai b …?

3f(3) + 2 = 305 = 5.33 + b.32 + 2

3f(3) = 305 - 2 = 5.33 + b.32 + 2

3f(3) = 303 = 5.33 + b.32 + 2

f(3) = = 5.33 + b.32 + 2

f(3) = = 135 + b.9+ 2

-9b= 137- 101

b= = -4 (a)

1. p(x) dan q(x) untuk x = 6 adalah

-4 dan 8. r(x) =3p(x) – q(x), nilai r(6) adalah..?

r(6) = 3p(x) – q(x)

=3.-4 – 8

=-12 – 8

= -20 (a)

1. a(4) = -6 , b(4) = -2 , c(4) =13 .

p(x) = a(4) . b(4) - c(4)

=-6 x -2 – 13

= -1 (b)

1. f(-1) = 3.-1 + 4 =1

f(-1) = 2.-12 – 3.-1 + 4 =6

h(x) = (f(x) + g(x)) . f(x)

= (1 + 6 ) . 1

= 7 (b)

1. f(x) = g(x)

f(3) = 32 + 3 + 4 = 16

g(3)=16 = 3.32 – 2.3 + c

g(3)=16 =33 + c

c= -17

g(4) = 3.42 – 2.4 + 17

g(4) = 48 – 8 + 17

g(4) = 23 (e)

1. p(x)- q(x) =4x3  -2x2 + 1 - x4 - nx2 + 2

r(2) = 4.23  -2.22 + 1 - 24 – n.22 + 2

39=7 + 4n

n = = 8 (a)

1. p(-5)= 3.q(-5) – 2.r(-5)

4= 3.-3 – 2.r(-5)

4=-9 – 2.r(-5)

13= – 2.r(-5)

r(-5)= = -6,5 (c)