



121-0NUNE TEST 4, FALL, 2012

(3)

(4)

$$f(x) = \sqrt{\frac{(x+5)^2}{(x-4)(x-1)^3}} = 0 \text{ and } x \neq 1, 4$$

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$$f(x) = \sqrt{\frac{(x+5)^2}$$

24+7= 5×+4

24 to xxx f

$$\begin{array}{l}
|2| - 0 \text{ Way B} \\
|2| - 3| - 5 \times - 4 \\
|4| (2^{\times - 3}) = 2n(5^{\times} - 4) \\
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d=10/1=3 -->

(2) log=(x-4) + log=(x+2) = log=(7) D={x1x>2} log= ((x-4)(x+2)) = logs (7)

(x-4)(x+2) = 7

PRINCED

(x-5)(x+3)=0

x=(2-3,)=3, but x=-3 & D 50 x & 253

Check x=5 , logs (5-4) +logs (7) =7

(10) Half -life is 250 yrs

A(+) = Aoekt

A(250)=A0e250K=1/240

A(+) = A, e = 250 t ≈ A,e -.0027725887-t

ARKE = 1 A 3 Remains e K = = =

250K = lu('/2) =-lu(2)

K= lu2

Kt= ln(3)=-ln(3)

t= -lu3 = -lu3.250

2396,2406252 2 (396 years)

121-ONLINE TEST 4, FALL 2012 EARATA.

Let's Fix the D(fog) from Page 2

Need x2-24+8 = 0, basically. The way I factored was an optical illusion.

x2-2x+8 =0 Firel zeros

 $\chi^2 - 2\chi = -8$

x2-2x+12= 3+12

(x-15=-7 No real solutions. No sign changes.) Either always positive or always megative, so always positive, since of-210)+8 is positive.

of D(Fog) = (-eq. 00) and the questron warn't very well-devised.