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Excellent job



Test in/ Examen de : Math

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Time / La durée : 120 min

Class/ La Classe: 9C

Date / La date: 2/3/2015

1<sup>st</sup> exercise :

$$\begin{aligned}
 1. \quad a(a+5) &= \left(\frac{3\sqrt{5}-5}{2}\right) \left(\frac{3\sqrt{5}-5}{2} + \frac{5}{1 \times 2}\right) \\
 &= \left(\frac{3\sqrt{5}-5}{2}\right) \left(\frac{3\sqrt{5}-5+10}{2}\right) \\
 &= \left(\frac{3\sqrt{5}-5}{2}\right) \left(\frac{3\sqrt{5}+5}{2}\right) \\
 &= \frac{9 \times 5 - 25}{4} \\
 &= \frac{45 - 25}{4} \\
 &= \frac{20}{4} \\
 a(a+5) &= 5
 \end{aligned}$$

HOPE  
I can give  
you  
MORE

CAUSE you  
deserve it

$$\begin{aligned}
 2. \quad (d): \quad y &= (\sqrt{3}-5)x - 1 \\
 (d'): \quad 22y - (\sqrt{3}+5)x + 2 &= 0 \\
 22y &= (\sqrt{3}+5)x - 2 \\
 y &= \frac{(\sqrt{3}+5)x}{22} - \frac{2}{22} \\
 y &= \frac{(\sqrt{3}+5)}{22}x - \frac{1}{11}
 \end{aligned}$$

Compute slopes:  $(\sqrt{3}-5) \times \frac{(\sqrt{3}+5)}{22} =$

Since the product of slopes = -1  
Then (d) & (d') are perpendicular

P-1.

(B)

$$\begin{aligned}
 &= \frac{(\sqrt{3}-5)(\sqrt{3}+5)}{22} \\
 &= \frac{3 - 25}{22} \\
 &= \frac{-22}{22} \\
 &= -1
 \end{aligned}$$