

Pg 16

Romya / 21 Frangos

ACHA 4000

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c) $z_1 = 9 + 4j$

$$z_2 = -7 - 5j$$

$$z_3 = 2 - 5j$$

$$(-9 - 4j)(-7 - 5j)(-2 + 5j)$$

$$(-63 + 45j + 28j + 20j^2)(-2 + 5j)$$

$$(20j^2 + 73j - 63)(-2 + 5j)$$

$$-40j^2 + 100j^3 - 146j + 365j^2 + 126 - 315j$$

$$\Rightarrow 100j^3 + 325j^2 - 461j + 126$$

$$\Rightarrow -100 - 325 - 461j + 126$$

$$\underline{\underline{-299 - 461j}}$$

$$\boxed{P^* = 549.47}$$