

Σ 139 / Α1 I

$$\begin{array}{r}
 \Delta(x) \quad 3x^3 + 6x^2 - 17x + 20 \\
 - 3x^3 - 9x^2 \\
 \hline
 = -3x^2 - 17x + 20 \\
 + 3x^2 + 9x \\
 \hline
 = -8x + 20 \\
 + 8x + 24 \\
 \hline
 = 44 \\
 \quad \quad \quad \cup \\
 \quad \quad \quad \pi(x)
 \end{array}
 \quad \left| \quad \begin{array}{r}
 \delta(x) \\
 (x+3) \\
 \hline
 3x^2 - 3x - 8 \\
 \quad \quad \quad \cup \\
 \quad \quad \quad \pi(x)
 \end{array}
 \right.$$

$$\Delta(x) = \delta(x) \cdot \pi(x) + \cup$$

$$3x^3 + 6x^2 - 17x + 20 = (x+3) \cdot (3x^2 - 3x - 8) + 44$$

Ενδεικτικά ταυώματα



A1 II



$$\begin{array}{r}
 \begin{array}{r}
 X^4 \quad \downarrow \quad \downarrow \quad \downarrow \\
 -X^4 + 3X^3 \\
 \hline
 = 3X^3 \quad -81 \\
 -3X^3 + 9X^2 \\
 \hline
 = 9X^2 \quad -81 \\
 -9X^2 + 27X \\
 \hline
 = 27X - 81 \\
 -27X + 81 \\
 \hline
 = 0 = 0
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 X-3 \\
 \hline
 X^3 + 3X^2 + 9X + 27 \\
 \quad \quad \quad \parallel \\
 \quad \quad \quad \Pi(X)
 \end{array}$$

$$X^4 - 81 = (X-3) \cdot \overset{\text{παράγοντας } 3}{(X^3 + 3X^2 + 9X + 27)}$$

81 vto hero

← A1

$$\begin{array}{r}
 24x^5 + 20x^3 - 16x^2 - 15 \quad | \quad 6x^2 + 5 \\
 \underline{-24x^5} \qquad \underline{-20x^3} \qquad \qquad \qquad \\
 \qquad \qquad \qquad -16x^2 - 15 \\
 \qquad \qquad \qquad \underline{+16x^2} \qquad \underline{+40} \\
 \qquad \qquad \qquad \qquad \qquad \qquad -5
 \end{array}$$

-5

$$\begin{aligned}
 \frac{15}{6} &= \frac{5}{2} \\
 \frac{5 \cdot 16}{6} &= \frac{5 \cdot 8}{3} = \frac{40}{3} \\
 \frac{-45}{3} + \frac{40}{3} &= \frac{-5}{3}
 \end{aligned}$$

$$24x^5 + 20x^3 - 16x^2 - 15 = (6x^2 + 5) \cdot \left(4x^3 - \frac{8}{3}\right) - \frac{5}{3}$$

← A1 v 139 | $X^4: (x-1)^3 = X^3 - 3 \cdot X^2 \cdot 1 + 3 \cdot X \cdot 1^2 - 1^3$

$$(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3 = X^3 - 3X^2 + 3X - 1$$

$$\begin{array}{r}
 X^4 \\
 -X^4 + 3X^3 - 3X^2 + X \\
 \hline
 = 3X^3 - 3X^2 + X \\
 -3X^3 + 9X^2 - 9X + 3 \\
 \hline
 = 6X^2 - 8X + 3 = v(x)
 \end{array}
 \quad \left| \begin{array}{l}
 X^3 - 3X^2 + 3X - 1 \\
 \hline
 X + 3 \\
 \text{Π(x)}
 \end{array} \right.$$

$$X^4 = (x+3) \cdot (x^3 - 3x^2 + 3x - 1) + 6x^2 - 8x + 3$$

Σημ1 Σ139 A1 7v vε

→ A4 με διαίρεση παίχθηκε Ησάμα