

ΛΥΣΗ

α) Έχουμε:

$$\frac{4x+5y}{x-4y} = -2, \text{ δηλαδή}$$

$$4x+5y = -2(x-4y), \text{ οπότε}$$

$$4x+5y = -2x+8y, \text{ δηλαδή}$$

$$3y = 6x \text{ και τελικά}$$

$$y = 2x$$

β) Για  $y = 2x$  η παράσταση  $A$  γράφεται:

$$\begin{aligned} A &= \frac{2x^2 + 3y^2 + xy}{xy} = \frac{2x^2 + 3(2x)^2 + x(2x)}{x(2x)} = \frac{2x^2 + 3(4x^2) + 2x^2}{2x^2} = \\ &= \frac{2x^2 + 12x^2 + 2x^2}{2x^2} = \frac{16x^2}{2x^2} = 8. \end{aligned}$$