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LIT A 2

M. Intermedia 2

[\rightarrow intersección en el paraboloide $z = 4x^2 + y^2$

Cilindro parabólico $y = x^2$

$r(t) = ?$

$$\left. \begin{array}{l} z = 4x^2 + y^2 \\ 4x^2 + y^2 - z = 0 \end{array} \right\} \begin{array}{l} y = t^2 \\ x = t \\ z = 4t^2 + t^4 \end{array}$$

$$4x^2 + x^4 - z = 0$$

$$x^2(4 + x^2) = z$$

$$\boxed{r(t) = ti + t^2j + (4t^2 + t^4)k}$$