(b) [Seen similar] First, a direct computation yields

$$\gamma'(t) = \left(1, -\frac{4t}{\sqrt{16-4t^2}}\right)$$
. [1 mark]

Furthermore, observe that

$$\gamma(\sqrt{2}) = (\sqrt{2}, 2\sqrt{2}), \quad \gamma'(\sqrt{2}) = (1, -2), \quad |\gamma'(\sqrt{2})| = \sqrt{5}. \quad [2 \text{ marks}]$$

As a result, the unit tangents are given by

$$\mathbf{t}^{\pm} = \pm \frac{1}{|\gamma'(\sqrt{2})|} \cdot \gamma'(\sqrt{2})_{\gamma(\sqrt{2})} = \pm \frac{1}{\sqrt{5}} (1, -2)_{(\sqrt{2}, 2\sqrt{2})}.$$
 [2 marks]

The unit normals are then obtained by rotating the unit tangents:

$$\mathbf{n}^{\pm} = \pm \frac{1}{\sqrt{5}} (2, 1)_{(\sqrt{2}, 2\sqrt{2})}$$
 [1 mark]

Alternatively, one can note that C is a level set of the function $f(x,y) = 4x^2 + y^2$, defined on all of \mathbb{R}^2 . Taking a gradient of f, at each $(x,y) \in \mathbb{R}^2$, yields

$$\nabla f(x, y) = (8x, 2y)_{(x,y)}$$
. [2 marks]

Moreover, note that

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