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$25\sin 2t = \cos 2t + \sin 2t = 1$ . 1.2.3 Denoting  $d/d\varphi$  by a dot,  $\dot{\gamma} = (r\dot{\varphi} \cos \varphi - r \sin \varphi, r\dot{\varphi} \sin \varphi + r \cos \varphi)$  so  $|\dot{\gamma}|^2 = r^2 \dot{\varphi}^2 + r^2$ . Hence,  $\gamma$  is regular unless  $r = r(\varphi) = 0$  for some value of  $\varphi$ . It is unit-speed if and only if  $r^2 \dot{\varphi}^2 + r^2 = 1$ . To see that this is the equation of a circle of radius  $1/2$ , see the diagram in the proof.

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$OQ = [e, f] + t[b, a] + t^2 R$  with  $[e, f]$  any vector solving the equation  $ae + bf = d$ . For  $a \neq 0$ , one may use  $[e, f] = [d/a, 0]$ , for  $b \neq 0$ , a simple solution has coordinates  $[0, d/b]$ . A solution that always works is  $[e, f] = [ad/(a^2+b^2), bd/(a^2+b^2)]$ . Note that the parallel vector  $[b, a]$  is the hat vector to the vector  $n = [a, b]$ .

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