## Exercises

See figure 1.

Solution 1. [1QF]

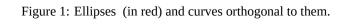
0.6

0.8

0.2

2 1.8 1.6 1.4 1.2

E0.1 [1qc] For each point (x, y) of the plane with x, y > 0 passes a single ellipses  $4x^2 + y^2 = a$  (with a > 0). Describe the family of curves that at each point are orthogonal to the ellipse passing through that point.



0.5

1.5