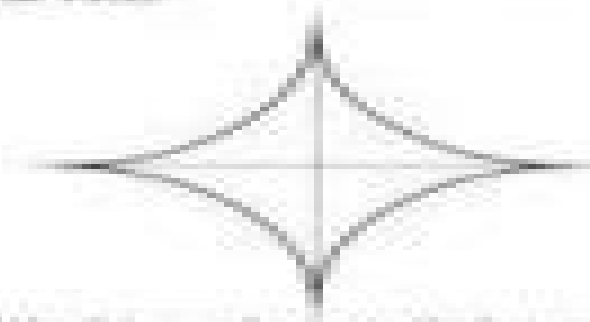


# Solutions to the Exercises in Elementary Differential Geometry

## Chapter 1

- 1.1.1. If  $\alpha$  is a parametrization of the part of the parabola with  $x \geq 0$ ,  
 1.1.2. For  $\alpha(t) = (a \cos t, a \sin t)$  with  $a > 0$  and  $0 \leq t \leq 2\pi$ , then  $\alpha$  is a  
 parametrization of the circle of radius  $a$  centered at the origin. Then  $\alpha'(t) = (-a \sin t, a \cos t)$   
 and  $|\alpha'(t)| = a$ .  
 1.1.3. For  $\alpha(t) = (a \cos t, a \sin t)$  with  $a > 0$  and  $0 \leq t \leq 2\pi$ , then  $\alpha'(t) = (-a \sin t, a \cos t)$   
 and  $|\alpha'(t)| = a$ .  
 1.1.4. For  $\alpha(t) = (a \cos t, a \sin t)$  with  $a > 0$  and  $0 \leq t \leq 2\pi$ , then  $\alpha'(t) = (-a \sin t, a \cos t)$   
 and  $|\alpha'(t)| = a$ .  
 1.1.5. For  $\alpha(t) = (a \cos t, a \sin t)$  with  $a > 0$  and  $0 \leq t \leq 2\pi$ , then  $\alpha'(t) = (-a \sin t, a \cos t)$   
 and  $|\alpha'(t)| = a$ .



- 1.1.6. For  $\alpha(t) = (a \cos t, a \sin t)$  with  $a > 0$  and  $0 \leq t \leq 2\pi$ , then  $\alpha'(t) = (-a \sin t, a \cos t)$   
 and  $|\alpha'(t)| = a$ .  
 1.1.7. For  $\alpha(t) = (a \cos t, a \sin t)$  with  $a > 0$  and  $0 \leq t \leq 2\pi$ , then  $\alpha'(t) = (-a \sin t, a \cos t)$   
 and  $|\alpha'(t)| = a$ .  
 1.1.8. For  $\alpha(t) = (a \cos t, a \sin t)$  with  $a > 0$  and  $0 \leq t \leq 2\pi$ , then  $\alpha'(t) = (-a \sin t, a \cos t)$   
 and  $|\alpha'(t)| = a$ .



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