In 2, 3 and $\mathbf{4}$ the circle and ellipse have the same perimeter.

| The locus of this point: | Centre | Centre | Focus |
| :---: | :---: | :---: | :---: |
| when this figure: <br> rolls around this one: | Circle | Ellipse | Ellipse |
| Identical circle | 1 | $2$  | $3$  |
| Identical ellipse | $4$ | 5a | $6 a$ |
|  | ${ }_{-2} \underbrace{}_{-1}{ }^{-1} \quad$0 | 5b | 6b |

