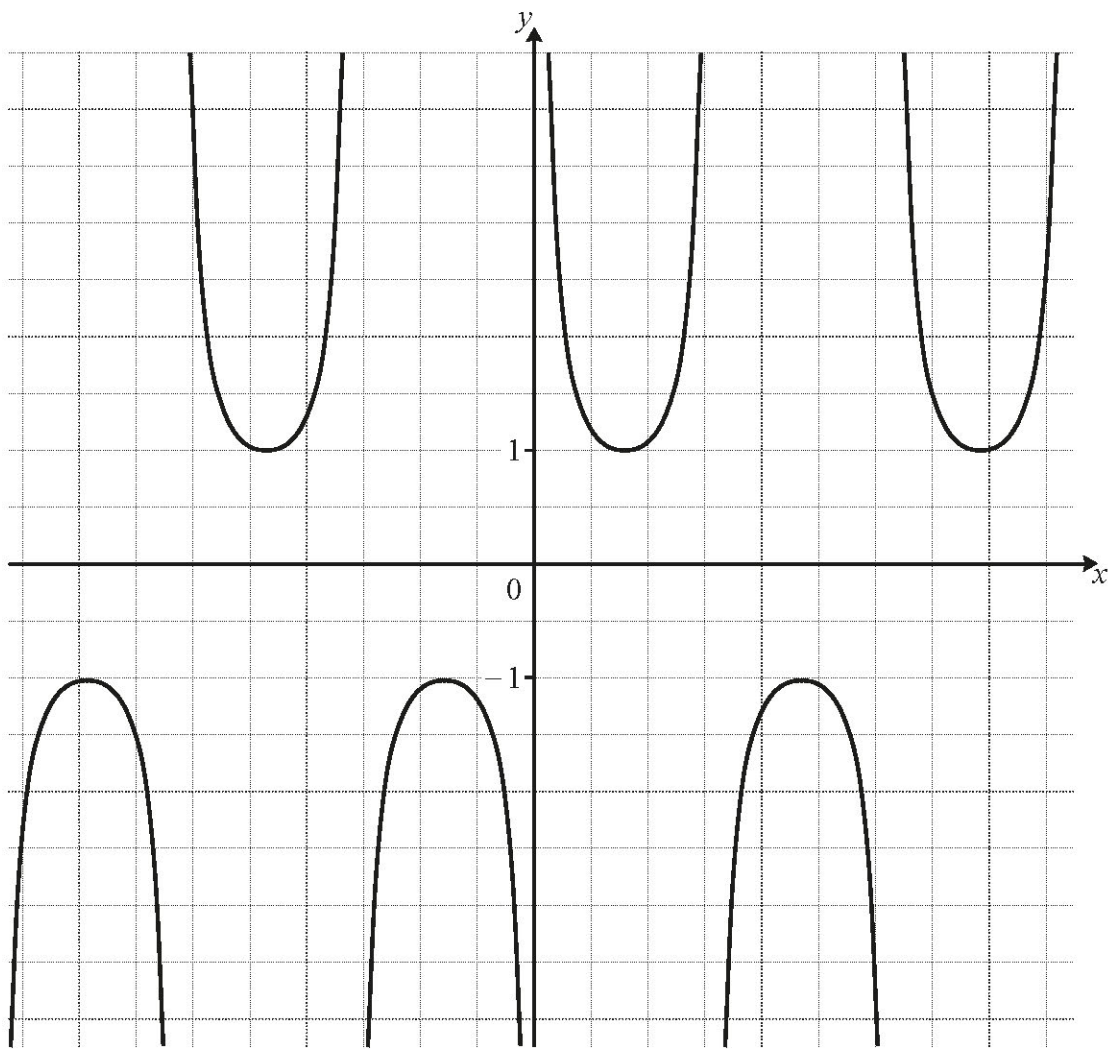


6 The diagram shows part of the graph of $f(x) = \operatorname{cosec} 2x$.



- (a) State which of the following is the equation of the curve $y = \frac{1}{f(x)}$.
- | | | | | |
|---------------|---------------------------------|--------------------------------|---------------|------------|
| $y = \cos 2x$ | $y = \operatorname{cosec}(-2x)$ | $y = -\operatorname{cosec} 2x$ | $y = \sin 2x$ | [1] |
|---------------|---------------------------------|--------------------------------|---------------|------------|
- (b) State the exact equations of the asymptotes of $y = \operatorname{cosec} 2x$ for $0 \leq x \leq \pi$.
- [1]**