A cubic function, $f$, is defined on the set of real numbers.

- $\quad(x+4)$ is a factor of $f(x)$
- $\quad x=2$ is a repeated root of $f(x)$
- $f^{\prime}(-2)=0$
- $f^{\prime}(x)>0$ where the graph with equation $y=f(x)$ crosses the $y$-axis

Sketch a possible graph of $y=f(x)$ on the diagram in your answer booklet.

Answer:
The graph should feature:

- a root at $x=-4$
- a stationary point touching the $x$-axis when $x=2$
- another stationary point when $x=-2$
- a positive gradient when $x=0$.

See marking instructions for details.

