8. **In this question you must show all stages of your working.**
Solutions relying on calculator technology are not acceptable.

$$f(x) = 5x^3 - 7x^2 - 8x + a$$

where a is a constant.

Given that $(x - 2)$ is a factor of $f(x)$

(a) show that $a = 4$

(2)

(b) Hence solve $f(x) = 0$

(4)