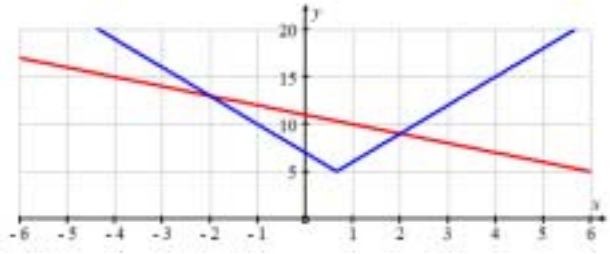
| Question | Answer | Marks | Partial Marks |
|---|---|---|---|
| 1(a) |  | **4** | **M1** for ∨ shape of $y = 5 + \lvert 3x - 2 \rvert$ with vertex at $\left(\frac{2}{3}, 5\right)$<br><br>**A1** for correct graph with $y$-intercept $(0,7)$<br><br>**M1** for correct straight line for $y = 11 - x$<br><br>**A1** for correct straight line with $y$-intercept $(0,11)$ |
| 1(b) | $x > 2$ or $x < -2$ | **B2** | Mark final answer for **B2**<br>**B1 FT** for exactly two correct critical values or correct FT critical values soi, FT dependent on at least M1 in **(a)** |
| 2(a) | $16 - 96x + 216x^2 - 216x^3 + 81x^4$ | **B4** | Mark final answer for **B4**<br>**B3** for any 4 correct simplified terms in a sum<br>or for all 5 simplified terms listed but not summed<br>or for a correct simplified expansion that is not their final answer<br>or<br>**B2** for any 3 correct simplified terms in a sum<br>or for 4 correct simplified terms listed but not summed<br>or<br>**B1** for any 2 correct simplified terms in a sum<br>or for 3 correct simplified terms listed but not summed<br>or<br>**M1** for correct unsimplified expansion<br>$2^4 + 4\times 2^3(-3x) + 6\times 2^2(-3x)^2$<br>$+4\times 2(-3x)^3 + (-3x)^4$ |