### 3rd August

**Shown is the graph** $y = f(x)$

**Sketch**

(a) $y = f(-x)$

(b) $y = f(x + 3)$

**For all values of $x$**

$f(x) = x^2 + 5$

$g(x) = x - 4$

**Solve**

$fg(x) = gf(x)$

**Find the equation of AB**

**Shown are the straight lines AB and CD.**

- $M$ is the midpoint of CD
- AB is perpendicular to CD and passes through the point $M$
- C is the point (0, 12) and D is the point (6, 0)

- B is the point (11, 10)
- AM:MB = 5:2

**Find the coordinates of the point A**

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