

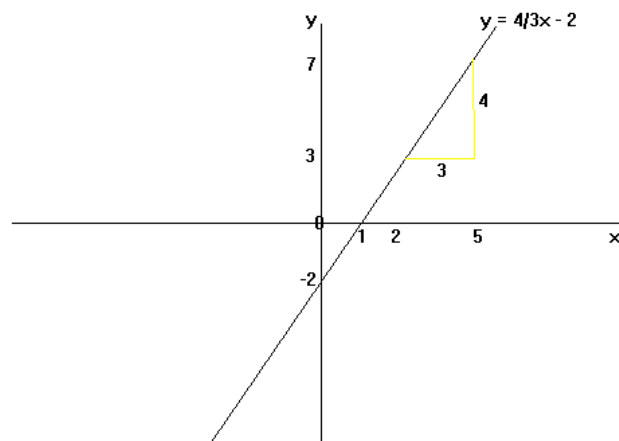
Calculators NOT permitted and working needs to be shown.

Unit level:

1. Given that $f(x) = x^2 + 3x$, evaluate $f(-5)$.
2. One kilometre is approximately $\frac{5}{8}$ of a mile, i.e. $k = \frac{5}{8}m$.
Make m the subject of this formula.

3. The graph shows the line with equation $y = \frac{4}{3}x - 2$:

Make x the subject of the equation



Assessment Level:

4. Change the subject of the equation:
 - a. $L = \frac{1}{2}(h - t)$ to h
 - b. $p = q + \sqrt{a}$ to a
 - c. $K = \frac{m^2n}{p}$ to m
5. A function is given by the formula $f(x) = 4 \times 2^x$
 - (a) Evaluate $f(3)$
 - (b) Given that $f(m) = 4$, find the value of m