Past-paper walk-through

Drawing linear graphs ▪ E3.2

eXercise

Questions in this set

- 0580/23 N25 Q22 ▪ 4 marks
- 0580/21 J25 Q6 ▪ 6 marks

Reading the mark scheme

- **B1** a mark that stands on its own – the point is either made or not.
- **M1** a *method* mark: the right approach, even if the number is wrong.
- **A1** an *answer* mark, and it usually needs its M mark first.
- **C1** a working mark on the way to the answer.
- // separates answers the examiner accepts equally.
- **ecf** = error carried forward: a later part is marked on your own earlier answer.
- **owtte** = "or words to that effect" – the wording need not match.

Question 22

0580/23 N25 ▪ Q22 ▪ 4 marks

22 The equation of line L is y x 2 1 7 =-

- .

Find an equation of the line perpendicular to line L that passes through the point (3, 5).

- .

y = [3] **[4]**

Solution 22

$y = 2x - 1$

- 3 M1 for
- 1
- 0.5
- —
- —
- oe **M1**
- for (3, 5) correctly substituted into

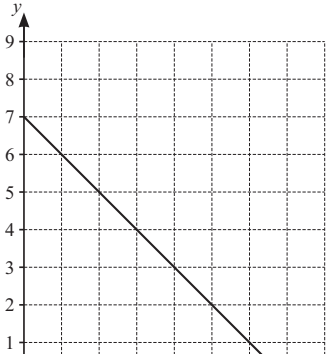
Solution 22

- y = (their 2)x + c
- 23
- 15
- 3 M1 for 1
- 6 10 sin30
- 2 ××
- ×
- oe **B1**
- for $\sin 30 = 1/2$ soi

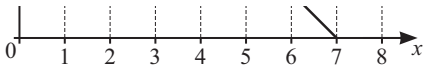
Question 6

0580/21 J25 ▪ Q6 ▪ 6 marks

6



Question 6



The line $x+y=7$ is drawn on the grid.

(a) On the grid, draw the line $y=2x+1$. [2]

(b) Use your graph to solve these simultaneous equations.

$$x+y=7$$
$$y=2x+1$$

Question 6

[1]

Solution 6

(a)

Mark scheme

- Correct line drawn
- 2 M1 for a line with gradient 2 or for a line with
- positive gradient and intercept at y $= 1$

Solution 6

(b)

Mark scheme

$x = 2$, [y =] 5

- 1 FT intersection of their (a) with the given line