

Solutions

Award method and answer marks as indicated; accept equivalent correct methods.

2.1

- $y = x + 2$ gives 0, 2, 4.

2.2

- Plot $(0, -1)$, $(1, 2)$, $(2, 5)$ and join with a ruler.

2.3

- **Horizontal ruled segment from $(-2, 4)$ to $(3, 4)$.**

2.4

- **Vertical ruled segment from $(-1, -3)$ to $(-1, 3)$.**

3.1

(a)

- The values are 5, 3, 0.

(b)

- **Rule a line through $(0, 5)$, $(2, 3)$, $(5, 0)$ over the stated domain.**

(c)

- The point $(3, 2)$ gives $x = 3$; the y -axis crossing is $(0, 5)$.

3.2

(a)

- The costs are **10, 46, 82 yuan**.
- Plot on labelled t and C axes with suitable scales, then join by a straight line only over the stated interval.

(b)

- At 2.5 h the cost is **55 yuan**.
- At 64 yuan the time is **3 h**.
- The intercept 10 yuan represents the fixed hire charge, even before any time charge.