

| | | | |
|--|-----|--|--|
| | | $y - (-2) = \frac{2}{3}(x - (-3)) \checkmark$ $y + 2 = \frac{2}{3}x + 2$ $y = \frac{2}{3}x \checkmark\checkmark$ OR $m_{AC} = \frac{2 - 2}{3 - 3}$ $m_{AC} = \frac{0}{0} = \frac{2}{3} \checkmark$ $y = mx + c$ $2 = \frac{2}{3}(3) + c \checkmark$ $c = 0 \checkmark$ $y = \frac{2}{3}x \checkmark$ | \checkmark sub B OR C coordinates $\checkmark \frac{2}{3}x$ $\checkmark c = 0$ |
| | 2.4 | Prove that AC is NOT perpendicular to BC. | (3) |
| | 2.4 | Bewys dat AC NIE loodreg is op BC nie. | (3) |
| | | $m_{AC} = \frac{8 - 2}{-5 - 3}$ $m_{AC} = \frac{10}{-8} = -\frac{5}{4} \checkmark$ $m_{BC} \times m_{AC} = -\frac{5}{4} \times \frac{2}{3} = -\frac{10}{12} = -\frac{5}{6} \checkmark$ $m_{AC} \times m_{BC} \neq -1 \checkmark$ \therefore AC not perpendicular to BC / AC nie loodreg op BC nie | $\checkmark m_{AC}$ $\checkmark m_{AC} \times m_{BC}$ \checkmark conclusion $\neq -1$ |
| | 2.5 | Calculate the coordinates of D such that ABCD forms a parallelogram. | (4) |
| | 2.5 | Bereken die koördinate van D sodat ABCD 'n parallellogram vorm. | (4) |
| | | Using translation: $x_D = -5 + 6 \checkmark = 1$ $y_D = 2 + 10 \checkmark = 12$ $\therefore D(1; 12) \checkmark\checkmark$ | \checkmark 6 units left \checkmark 12 units up $\checkmark\checkmark$ D(1; 12) |

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