

Topic Test 1 Mark Scheme

Algebra recap and review - Higher

| Q | Answer | Mark | Comments |
|---|---|------|-------------------------|
| 1 | $y - 2x = 0$ | B1 | |
| 2 | $y = \frac{8-x}{2}$ | B1 | |
| 3 | $y - 2x = 0$ | B1 | |
| 4 | $y = (3x + 8) \div 2$ or substitutes $x = 0$ | M1 | oe |
| | (0,4) | A1 | |
| 5 | $\frac{6-0}{0-2}$ | M1 | oe |
| | -3 | A1 | |
| | $y = -3x + 6$ | A1ft | oe ft their gradient |
| 6 | $3x = 2 - 14$ | M1 | |
| | -4 | A1 | |
| 7 | [0.2, 0.4] | B1 | oe |
| 8 | $2x + 8$ | B1 | |
| | $5x - \text{their } 2x = \text{their } 8 - 1$ | M1 | |
| | $\frac{7}{3}$ | A1 | |

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|-------|---|------|-------------------------------|
| 9(b) | $\frac{20}{75}$ or 1.25 seen | M1 | oe |
| | 16 | A1 | |
| 10(a) | Correct values in table: 2, 4, 16 and 32. | B1 | |
| | Points plotted correctly | B1ft | ft their values in table |
| | Smooth curve through all points | B1ft | ft their values in table |
| 10(b) | Gets close to zero or gets close to x-axis | B1 | oe Do not accept equals 0. |