

Equation of a Straight Line 2

1. Find the equation of the straight line with:

- | | |
|-----------------------------------------------|----------------------------------------------|
| a. a gradient of 7 and a coordinate (0, 3) | b. a gradient of 7 and a coordinate (0, 8) |
| c. a gradient of 4 and a point (3, 5) | d. a gradient of 4 and a point (5, 13) |
| e. a gradient of 4 and a coordinate (0, -3) | f. a gradient of 3 and a coordinate (0, -4) |
| g. a gradient of -3 and a coordinate (2, 10) | h. a gradient of -7 and a coordinate (3, 15) |
| i. a gradient of -4 and a point (3, 5) | j. a gradient of -4 and a point (5, 13) |
| k. a gradient of 4 and y-intercept at $y = 9$ | l. a gradient of 5 and y-intercept $y = -4$ |
| m. a gradient of 7 and a coordinate (2, 10) | n. a gradient of 7 and a coordinate (3, 15) |

2. Find the equation of the straight line with:

- | | |
|-----------------------------------------------|-------------------------------------------|
| a. a gradient of 7 and a coordinate (-2, 10) | b. a gradient of 7 and a point (3, -15) |
| c. a gradient of 4 and a point (-3, 5) | d. a gradient of 4 and a point (-5, -13) |
| e. a gradient of -3 and a coordinate (-2, 10) | f. a gradient of -7 and a point (3, -15) |
| g. a gradient of -4 and a point (-3, -5) | h. a gradient of -4 and a point (-5, -13) |

3. Find the equation of the straight line with:

- | | | |
|------------------------------|------------------------------|------------------------------|
| a. points (3, 5) and (5, 9) | b. points (3, 5) and (6, 17) | c. points (3, 5) and (6, 14) |
| d. points (2, 1) and (5, 19) | e. points (3, 2) and (5, 14) | f. points (12, 7) and (2, 5) |

4. Find the equation of the straight line with:

- | | | |
|-------------------------------|----------------------------------|--------------------------------|
| a. points (-3, 5) and (1, 13) | b. points (3, 5) and (-6, 17) | c. points (3, 5) and (-6, -14) |
| d. points (2, 1) and (5, -19) | g. points (-3, -2) and (-5, -14) | h. points (-12, -7) and (8, 3) |

5. The line $y = 3x + 7$ goes through the point (2, y). State the value of y .

6. The line $y = 2x - 10$ goes through the point (3, y). State the value of y .

7. The line $y = 3x - 10$ goes through the point (x , 8). State the value of x .