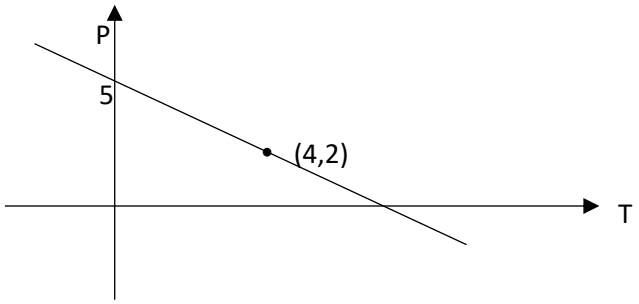
National 5 Homework

Geometric Skills | Straight Line Gradients and Graphs

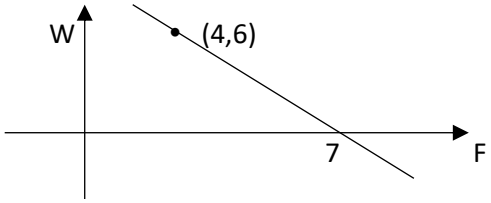
1. Find the equation of the straight line below in terms of T and P.



2. Calculate the gradient of the line joining the points A(-3,1) and B(2,8).

3. Find the gradient and y-intercept of the line with equation $4x - 5y - 15 = 0$.

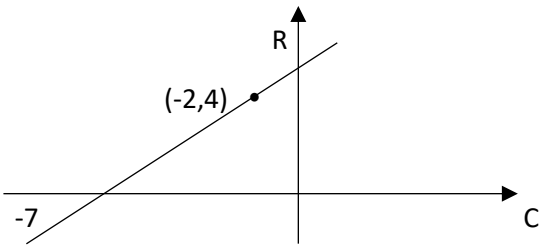
4. Find the equation of the line shown below in terms of W and F.



5. A straight line passes through the points P(3,9) and Q(a,a^2). Find an expression for the gradient in its simplest form.

6. Find the gradient and y-intercept of the straight line with equation $3x - 7y - 7 = 0$.

7. Find the equation of the straight line below in terms of R and C.



8. Find the equation of the line passing through (-4,2) and (1,8).

9. State the gradient and y-intercept of the line with equation $5x + 4y = 12$.

10. The point (a,-2) passes through the line with equation $2x + 5y + 8 = 0$. Calculate the value of a.