

Name - _____

Start time - __ : __

End time - __ : __

Calculate coordinate gradient.

1. Calculate the gradient of the line joining A (-3,2) and B (2,12).
2. The line joining C (4,-2) and D (0, p) has a gradient of -3.
Calculate the value of p.
3. Calculate the gradient of the line joining E $\left(\frac{5}{2}, \frac{3}{2}\right)$ and F $\left(\frac{9}{2}, \frac{15}{2}\right)$.
4. Calculate the gradient of the straight line joining the following pairs of points.
 - a. A (2, 1) and B (3, 4)
 - b. C (-1, 6) and D (0, 4)
 - c. E (-1, -3) and F (1, 5)
 - d. G (-7, 2) and H (-4, -1)
 - e. J (-2, 5) and K (1, 7)
 - f. M (-7, 3) and N (-3, -2)
 - g. R (-11, 4) and S (-2, -8)
 - h. T (-9, -10) and U (-3, 5)
5. A is the point (5,1) and B is the point (8,y). Find x if $m_{AB} = 2$.
6. C is the point (-1,7) and D is the point (x,-5). Find y if $m_{CD} = -\frac{2}{5}$.
7. E is the point $\left(\frac{2}{5}, \frac{2}{5}\right)$ and F is the point $\left(\frac{11}{2}, y\right)$. Find y if $m_{EF} = -\frac{3}{4}$.

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