Worksheet

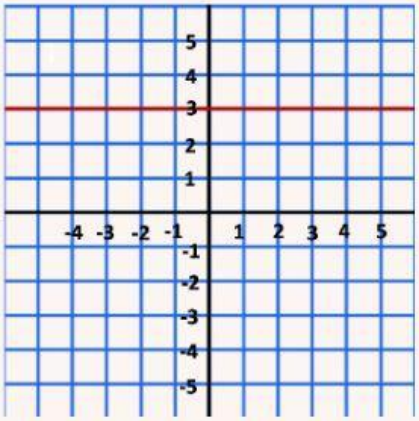
Finding Equation of Straight Line

name

class

no

1. Determine the Gradient, y-intercept and equation from the graph

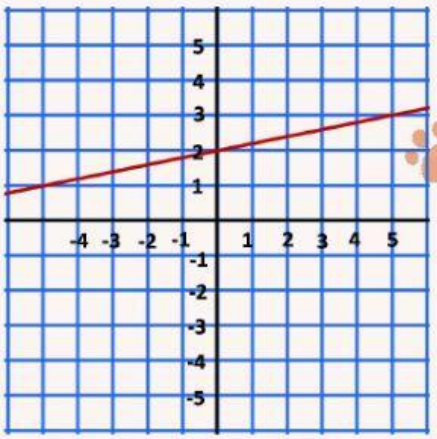


Gradient=

y-intercept=

Equation

y =



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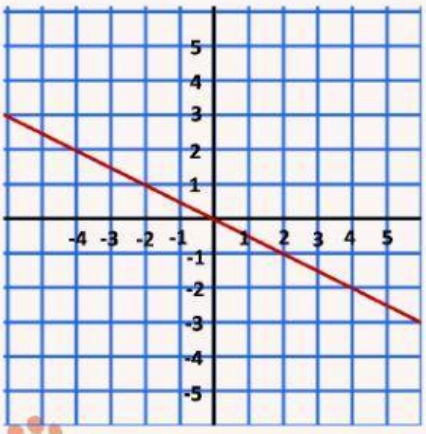
y-intercept=

Equation

y=



Gradient=

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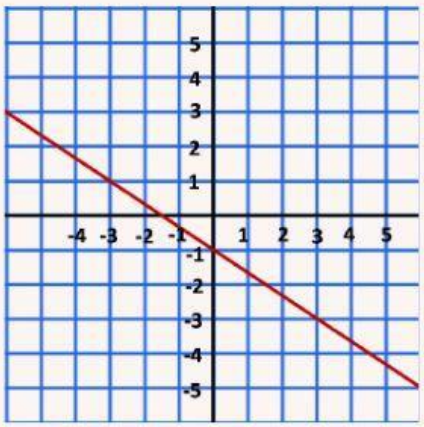
Equation

y=



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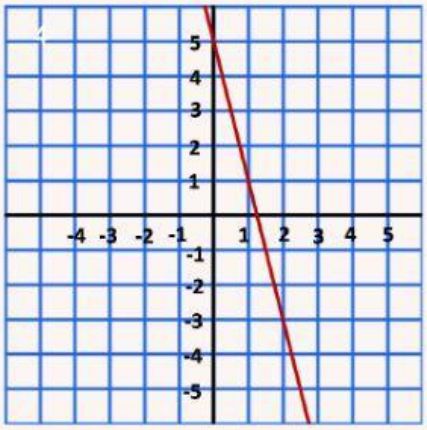

Gradient=

y-intercept=

Equation

y=

Determine the equation of a straight line, based on the following conditions.

Through the points (4,-3) and (1,1)	
Through the points (2,-2) and (-3,0)	
Through the points (0,5) and (-2,-4)	
The gradient is 3 and through the point (2,1)	
The gradient is -5 and through the point (3,0)	
The gradient is 2/3 and through the point (6,2)	

Equation that do no have a matching:

answer choices

$3x - y - 5 = 0$

$2x - 3y - 6 = 0$

$9x - 2y + 10 = 0$

$3x + 5y - 5 = 0$

$x + y - 2 = 0$

$5x + y - 15 = 0$

$2x + 5y + 6 = 0$

$4x + 3y - 7 = 0$

DOUBLE SCORE

Parallel

The equation of a straight line that is parallel to the line $2x-6y = 1$ and passes through the point (4,1) is

...x + ...y + ... = 0

Perpendicular

The equation of the straight line that is perpendicular to the line $4y = 3 - 2x$ and through the point (2,3) is

...x + ...y + ... = 0