

Worksheet

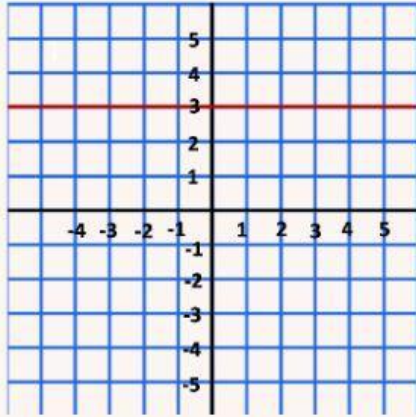
Finding Equation of Straight Line

name _____

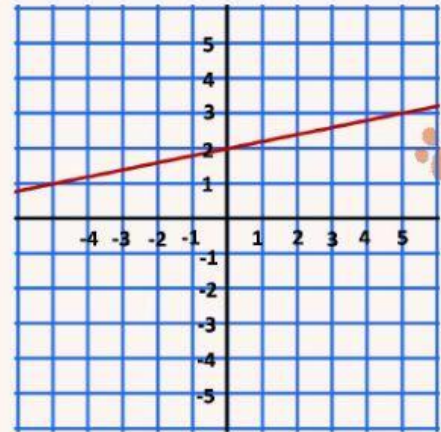
class _____

no _____

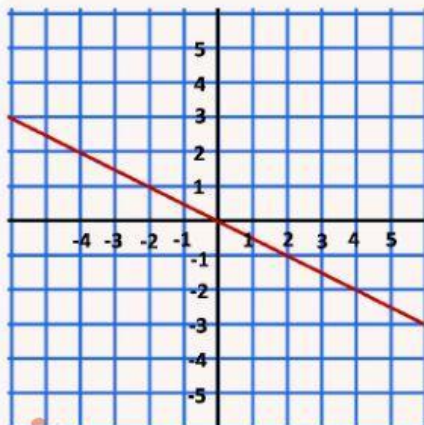
1. Determine the Gradient, y-intercept and equation from the graph



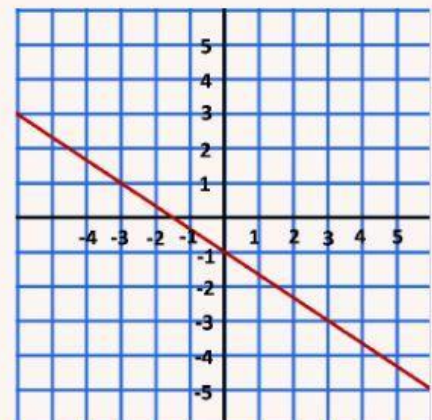
Gradient=
y-intercept=
Equation
y =



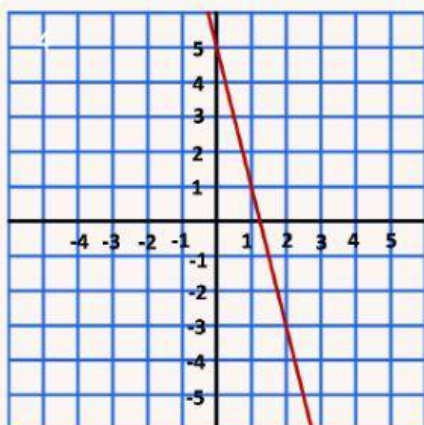
Gradient=
y-intercept=
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Equation
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Gradient=
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Gradient=
y-intercept=
Equation
y =



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 $\frac{2}{3}$ and
through the point (6,2)

Equation that do no
have a matching:

answer choices

$$3x - y - 5 = 0$$

$$9x - 2y + 10 = 0$$

$$x + y - 2 = 0$$

$$2x + 5y + 6 = 0$$

$$2x - 3y - 6 = 0$$

$$3x + 5y - 5 = 0$$

$$5x + y - 15 = 0$$

$$4x + 3y - 7 = 0$$

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

$$\dots x + \dots y + \dots = 0$$

Perpendicular

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

$$\dots x + \dots y + \dots = 0$$

