EGRIS

Linear Equations and tangent Lines

Slope and Linear equations	Parallel Lines	Perpendicular Lines	Domain and Range	Tangent Line
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400

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Slope and Linear equations for 100.

Determine the slope and y-intercept of the graph of the equation

$$2x + y = 4$$

a Slope = 2 y-intercept =(0,4)

b Slope = -2 y- intercept =(4,0)

c Slope = 4 y - intercept = (0 , 2)

d Slope = -2 y- intercept =(0,4)

Slope and Linear equations for 200.

Determine the slope and y- intercept of the graph of the equation

$$y = -3$$

a Slope $=$ 0 y-intercept (0,-3)

b Slope $=$ -3 y- intercept (0,0)

c Slope undefined y - intercept (0 , -3)

d Slope $=$ 0 no y - intercept

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Slope and Linear equations for 300.

Determine the slope and the x-intercept of the graph of the equation

$$x = -5$$

a Slope = -5 x-intercept (0,1)

b Slope = 1 x- intercept (0,-5)

c Slope undefined no x- intercept

d Slope undefined x - intercept (-5,0)

Slope and Linear equations for 400.

Find the equation of the straight line given that the y-intercept is (0, -6) and that the slope is 1/2.

a $\frac{1}{2}x + y = -6$

b $-\frac{1}{2}x + y = -6$

c $x + \frac{1}{2}y = -6$

d $-\frac{1}{2}x = y + 6$

Parallel Lines for 100.

Determine if the two equations represent lines that are parallel, perpendicular or neither

$$\begin{aligned} 10x + 2y &= 12 \\ 5x + y &= 2 \end{aligned}$$

a parallel

b perpendicular

c neither

Parallel Lines for 200.

Write an equation of the line that passing through (5 , 0) and is parallel to the line

$$y = -3x + 7$$

a $y = -3x + 5$

b $y = \frac{1}{3}x + 5$

c $y = -3x + 15$

d $y = \frac{1}{3}x - \frac{5}{3}$

Parallel Lines for 300.

Find an equation of the line that passing through (1 , 2) and is parallel to $y = 5$

a $y = 5x - 3$

b $y - 2 = 0$

c $5x - y = 2$

d $y = -2$

Parallel Lines for 400.

Determine whether the lines are parallel Perpendicular or neither

$$\begin{aligned} y &= 4x - 2 \\ -4x + y &= 5 \end{aligned}$$

a parallel

b perpendicular

c neither

Perpendicular Lines for 100.

Write an equation of the line that passing through(5 , 0) and is perpendicular to the line whose equation is

$$y = -3x + 7$$

a $y = -3x + 5$

b $y = \frac{1}{3}x + 5$

c $y = -3x + 15$

d $y = \frac{1}{3}x - \frac{5}{3}$

Perpendicular Lines for 200.

Find an equation of each line passing through (-2 , -3) and perpendicular to the y- axis

a $x = -2$

b $y = -3$

c $x + y = -3$

d $x = -3$

Perpendicular Lines for 300.

Find an equation for the line that passing through (0 , 12) and perpendicular to the x- axis

a $x = 0$

b $x = 12$

c $y = x + 12$

d $y = -\frac{1}{12}x$

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Perpendicular Lines for 400.

Find an equation of the line perpendicular to $x = -3$ passing through (-2 , 5)

a $x = -2$

b $y = 5x$

c $y + 5 = 0$

d $y = 5$

Domain and Range for 100.

Find the domain and range of the function $y = 2$

a Domain$= (-\infty, \infty)$ Range$= \{2\}$

b Domain$= \{2\}$ Range$= (-\infty, \infty)$

c Domain$= (-\infty, \infty)$ Range$= (2, \infty)$

d Domain$= (-\infty, \infty)$ Range$= (-\infty, 2)$

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Domain and Range for 200.

Find the domain and the range of the equation

$$2x + y \quad = \quad 5$$

a. Domain $= (-\infty, \infty)$ Range $= (-\infty, \infty)$

b. Domain $= \{2\}$ Range $= (-\infty, 5)$

c. Domain $= (5, \infty)$ Range $= (2, \infty)$

d. Domain $= (-\infty, \infty)$ Range $= (-\infty, 2)$

Domain and Range for 300.

Find the domain and the range of the equation

$$y = |x|$$

a Domain$=\{0\}$ Range$=(-\infty,\infty)$

b Domain$=(-\infty,\infty)$ Range$=(-\infty,\infty)$

c Domain$=(-\infty,\infty)$ Range$=(0,\infty)$

d Domain$=(-\infty,\infty)$ Range$=[0,\infty)$

Domain and Range for 400.

Find the domain and the range of the equation

$$\frac{y}{5} = \frac{x-3}{5}$$

a Domain$= (-\infty, \infty)$ Range$= (-\infty, \infty)$

b Domain$= (5, \infty)$ Range$= (-\infty, \infty)$

c Domain$= (-\infty, \infty)$ Range$= (5, \infty)$

d Domain$= \{5\}$ Range$= (-\infty, \infty)$

Tangent Line for 100.

Find the equation of the tangent Line to $F(x) = x^2$ at $x = 2$

a $y = 4$

b $y = 4x - 4$

c $y = 2x$

d $y = 4x^2 - 14$

Tangent Line for 200.

Find the equation of the tangent line to $F(x) = \tan x$ at $x = 0$

a $y = -x$

b $y = x$

c $y = 0$

d $y - x = 1$

Tangent Line for 300.

How many lines can be drawn from a point inside a circle to the circle?

a 1

b 2

c ∞

d 0

Tangent Line for 400.

Find all points on the graph $y = x^3 - 3x$ where the tangent line is parallel to the x- axis

a (1 , -1)

b (2,-2)

c (1, -1) , (2 , -2)

d (-1 , 2) , (1 , 2)

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