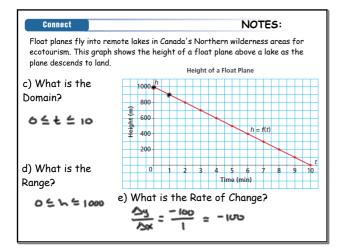
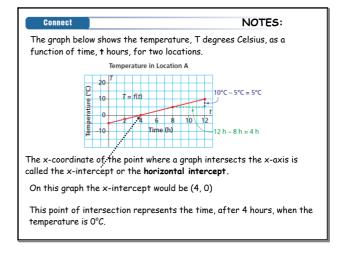


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The graph below shows the temperature, T degrees Celsius, as a function of time, t hours, for two locations.

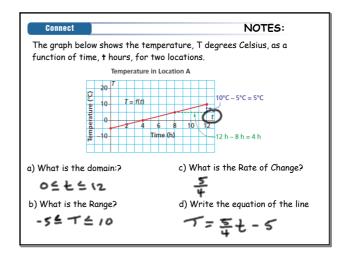
Temperature in Location A

Temperature in Location A

The y-coordinate of the point where a graph intersects the y-axis is called the y-intercept or the vertical intercept.

On this graph the y-intercept would be (0, -5)

This point of intersection represents the initial temperature, -5°C.



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Practice

EXAMPLE 1

Determine Intercepts, Domain, and Range of the Graph of a linear Function.

Nolume of Gas in a Scooter

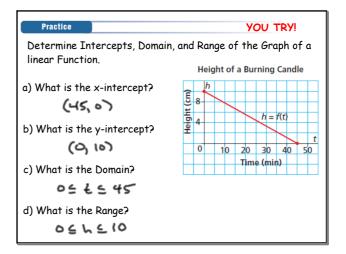
a) What is the x-intercept?

(200)

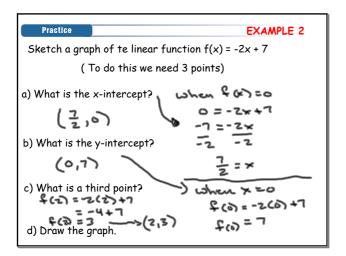
b) What is the y-intercept?

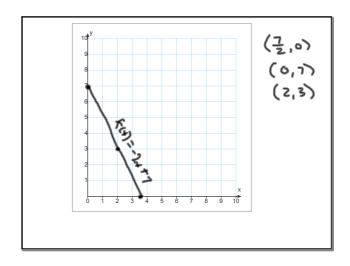
c) What is the Domain?

o \(\)



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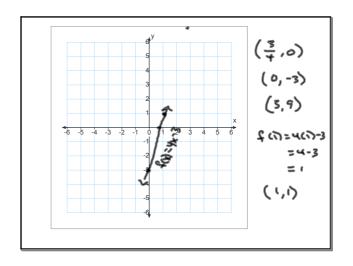




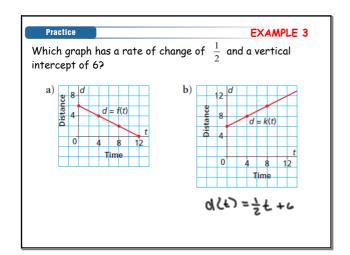
Nov 13-1:32 PM

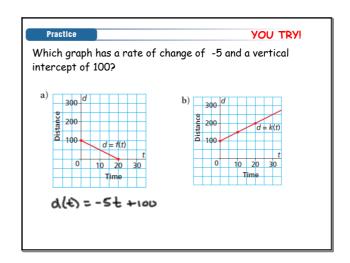
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YOU TRY! Sketch a graph of te linear function f(x) = 4x - 3(To do this we need 3 points) a) What is the x-intercept? 5(x)=0 0 = 44-3 (3,0) 3=44 b) What is the y-intercept? When x=0 (0,-3) 4 (5) = 4 (5) -3 c) What is a third point? ६ (इ) = 4(इ) -3 = 12-3 (3,9) = 9 d) Draw the graph.



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