Secondary 1 Math, Unit 20, Notes Day 1 Name_____ ID: 1

Graphing Linear & Exponential Functions

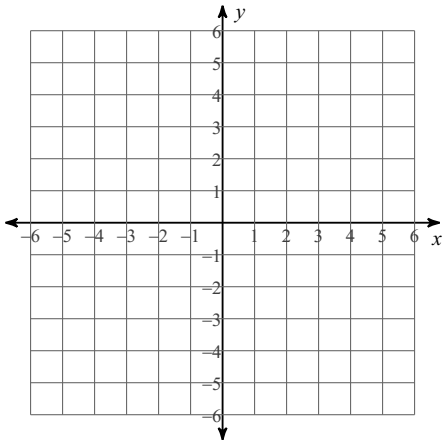
Date_____ Period____

1) Graphing a linear equation:

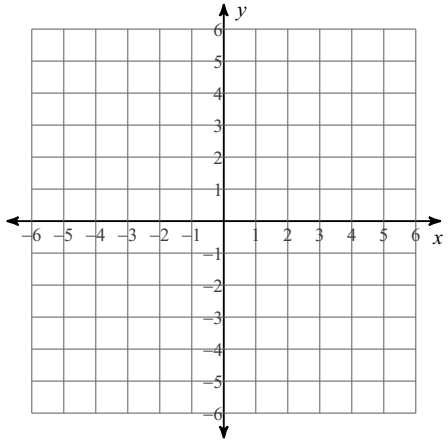
form: y =mx + b where m: slope
b: y-intercept

Sketch the graph of each line.

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

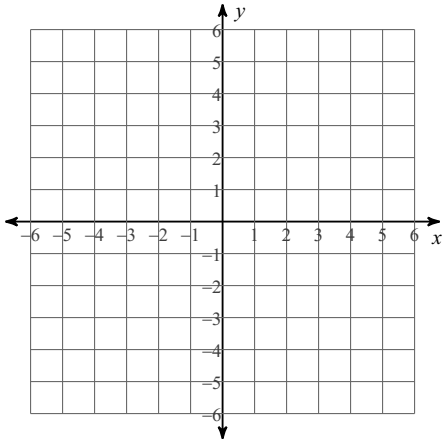


3) $y = x + 4$

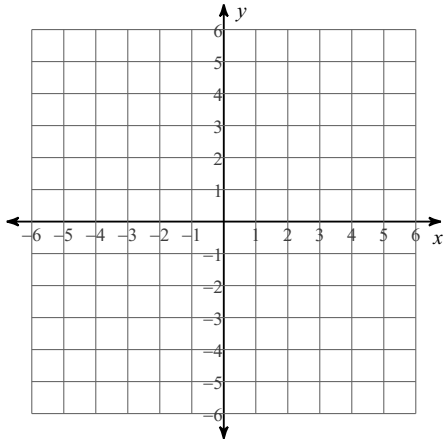


What if I am only given the x-intercept and the y-intercept?

4) x-intercept = 3, y-intercept = –5

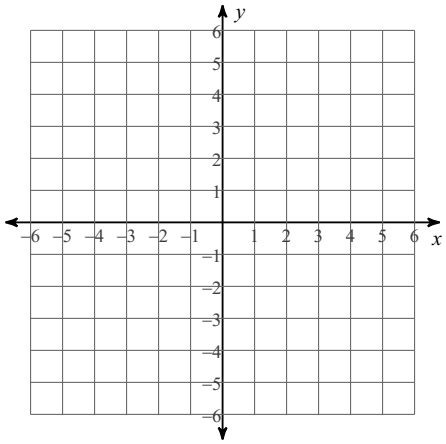


5) x-intercept = 5, y-intercept = 4

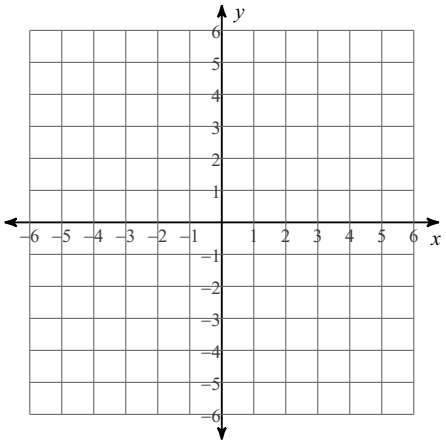


What if the equation is not insSlope-intercept form (y = mx + b)?

6) $4x - y = 5$

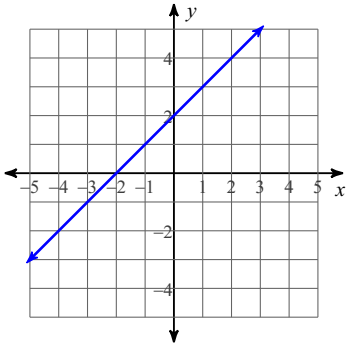


7) $2x + y = 3$

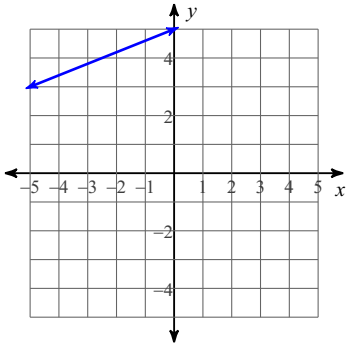


Can you find the slope and y-intercept and write the equation of a line in slope-intercpet form (y=mx+b)?

8)



9)

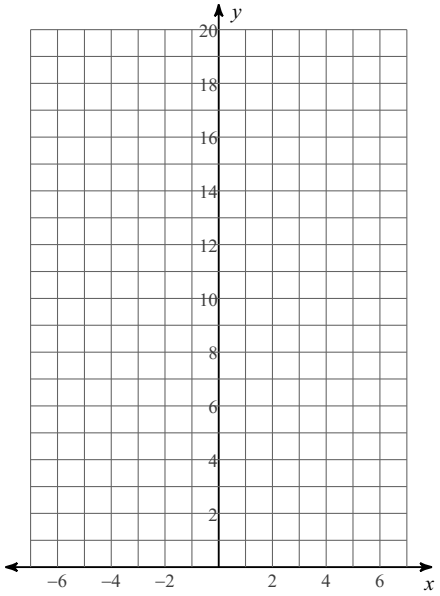


10) How about graphing an exponential equation
(HINT: make a table with x-values of -2, -1, 0, 1, 2, 3)

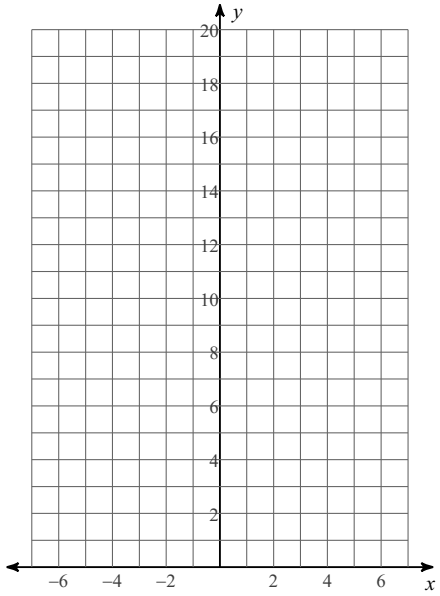
$f(x) = ab^x$ Where a: y-intercept
b: multiplier

Sketch the graph of each function.

11) $y = \frac{1}{2} \cdot \left(\frac{1}{5}\right)^x$

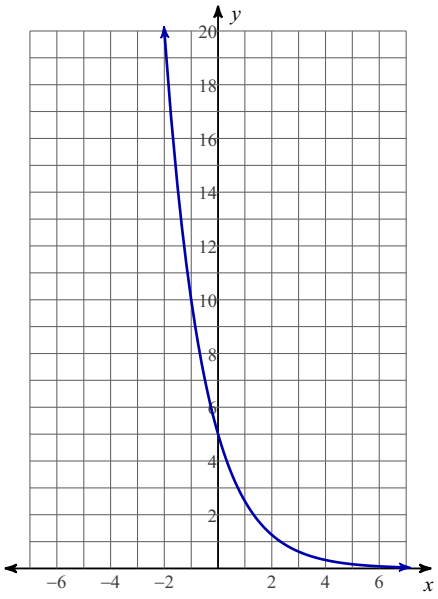


12) $y = 3 \cdot \left(\frac{1}{2}\right)^x$



Write an equation for each graph.

13)



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