

Meatwad has decided to get rid of his old school flip phone and get a smart phone (but not a smart flip phone). He has asked you to draw the budget lines for several different phone plans, including that for his old flip phone, so that he can have a visual depiction of his budget and options.



Draw a separate graph for each scenario below and label each graph with the provider's name. Put the 'composite good' ($P_c = \$1$) on the y-axis, and 'phone minutes' or 'GB of data', as appropriate, on the x-axis. Assume in each case that Meatwad's monthly budget (M) is \$100. Label all curves and x, y intercepts.

1. Meatwad used **AT&T** for his flip phone, and paid a \$30 monthly fee for the service, plus 10¢ per minute to talk for the first 300 minutes. Beyond 300 minutes, the price increases to 20¢/minute. There was no texting or data in this plan.
2. **Project Fi**'s plan includes unlimited calls and texts for a \$20 base fee. Data is billed at \$10/GB.
3. **Verizon**'s plan includes unlimited calls and texts, and 20 GB data for \$80. Each GB after the 20th is billed at \$10/GB.
4. After watching the TV add for the **Jitterbug** "smart" phone plan, and realizing how much he admires old folks, Meatwad is seriously considering their plan. It includes unlimited talk and text and 1 GB of data for a flat \$50 fee. Each additional GB of data is billed at \$25.
5. Finally, Meatwad sees Ryan Reynolds' commercial for **Mint Mobile**, and he realizes this is the best plan. It includes unlimited texts and calls, plus unlimited data all for \$30 per month.