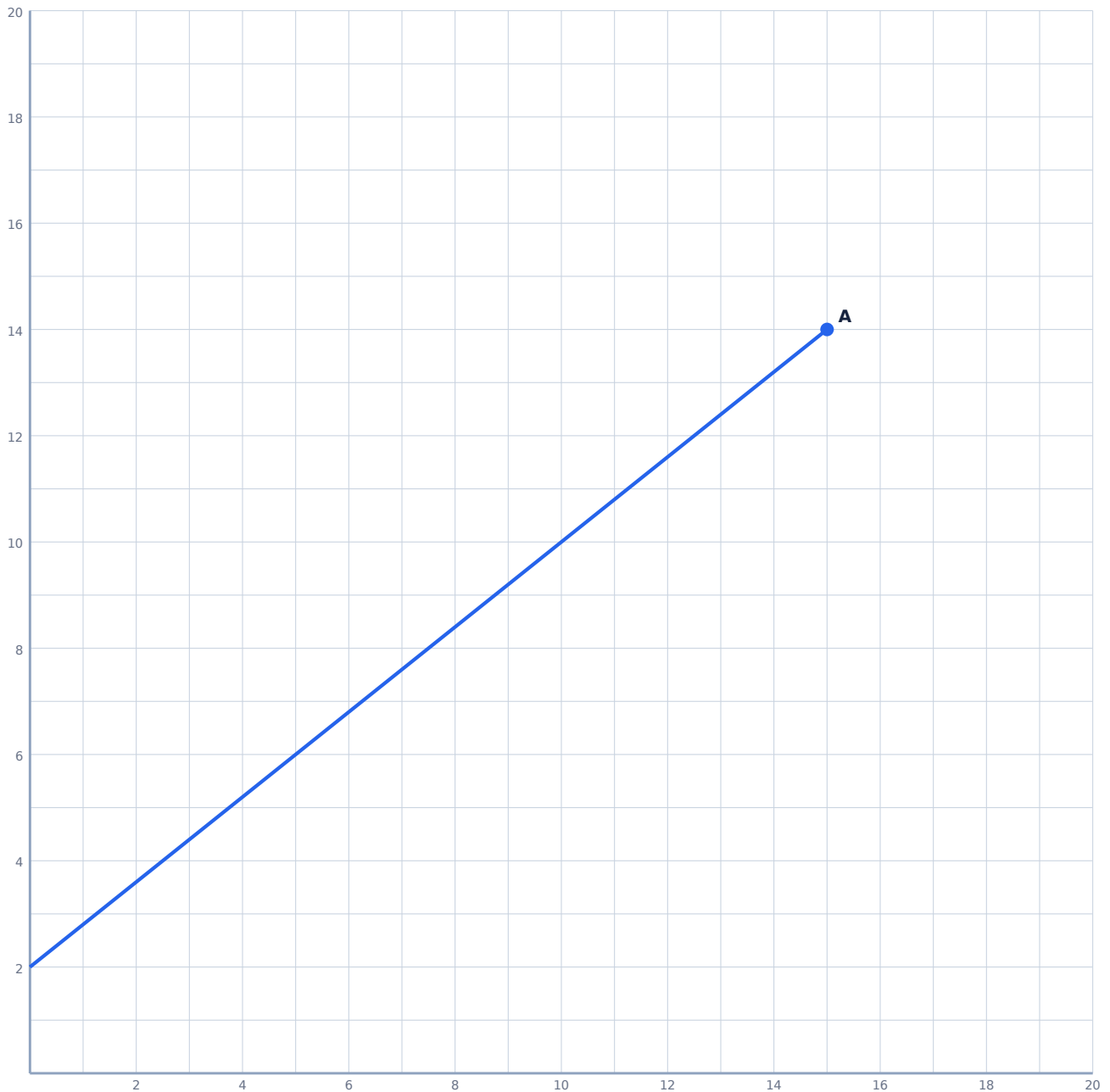


Plan Comparison Grid

Phone Plan Showdown · Name: _____ Date: _____

Axes: data in GB across; cost UP IN TENS of dollars (height 2 = \$20). Plan A is drawn: intercept (0, \$20), climbing \$8 per GB. Add Plans B (\$35 + \$5/GB) and C (\$50 + \$3/GB), label all three, and mark every break-even with its full coordinates.



Plan Cards — cut along the dashed lines

Phone Plan Showdown · Name: _____ Date: _____

One set per team. Every plan needs an equation, table column and labeled line before the clinic opens.

Plan A — 'Only \$20/month!'

\$20 monthly fee + \$8 per GB. Write the equation. What kind of user is this ad for?

Plan B — 'Just \$5 per GB!'

\$35 monthly fee + \$5 per GB. Write the equation. What is the ad not saying?

Plan C — 'Rates as low as \$3!'

\$50 monthly fee + \$3 per GB. Write the equation. When does the big fee pay for itself?

Break-even protocol

Estimate each crossing from the graph, then set the two equations equal and solve exactly. Report full coordinates: usage AND cost.

Customer Cards — cut along the dashed lines

Phone Plan Showdown · Name: _____ Date: _____

Every recommendation: computed costs under all three plans, the relevant break-even, and one sentence the customer would understand.

Emma

Uses about 3 GB and refuses to spend over \$60. Which plan, and what will she pay?

Alex

Streams everything: 18 GB every month. Which plan, and how much does the runner-up overcharge?

The Family

42 GB — off your grid entirely. Recommend by equation and report the ANNUAL savings over the runner-up.

The Traveler

2 GB most months, but 12 GB in two travel months each year. Optimize the YEAR, not the month — show the annual totals.

The Streamer

'Honestly? Somewhere between 6 and 9 GB.' Give the conditional recommendation their range demands.

Write your own

Invent a customer whose best plan is B. What usage range did you have to give them, and why is it narrow?