

Graphing Linear Equations Using Intercepts

1. **Find the y-intercept:** Substitute $x = 0$.
2. **Find the x-intercept:** Substitute $y = 0$.
3. **Plot and label both intercepts** on the cartesian plane.
4. **Draw the function** using a ruler.

Part A — Mild

1. $y = x + 2$
2. $y = -x + 3$
3. $y = -x - 3$
4. $y = x - 4$
5. $y = x + 6$

Part B — Medium

6. $y = 2x + 12$
7. $y = -3x + 30$
8. $y = 4x - 60$
9. $y = -5x - 100$
10. $y = 8x + 200$

Part C — Spicy

11. $y = \frac{1}{4}x + 6$
12. $y = -\frac{1}{10}x + 6$
13. $y = \frac{2}{15}x - 12$
14. $y = -\frac{2}{25}x - 12$
15. $y = -\frac{3}{40}x + 15$

Part D — Extra Spicy

16. $y = 10x + 15$
17. $y = -12x + 15$
18. $y = \frac{3}{8}x - \frac{25}{2}$
19. $y = -\frac{1}{10}x - \frac{75}{4}$
20. $y = -\frac{2}{15}x + \frac{125}{3}$