

Graph general Form by Inspection; $ax + by = c$ Cover-up Method

The pattern

The y intercept occurs when $x = 0$

The x-intercept occurs when $y = 0$

Procedure (cover-up)

1. Graph the y- intercept
2. Graph the x- intercept
3. Draw a line through the points

Graph

1. $3x + 2y = 6$
2. $5x + 4y = 20$
3. $4x - 3y = 12$

In the equation $ax + by = c$

Solve for y

$$ax + by = c$$

$$by = -ax + c$$

$$y = \frac{-a}{b}x + \frac{c}{b}$$

$$y = mx + b$$

In the general form of the equation of a line, the slope is $\frac{-a}{b}$