Writing equations in slope-intercept form (y = mx + b)

from standard form (2x + 3y = 12)

m = slope

b = y intercept (where the line crosses the y-axis)

If the equation is not in slope intercept form – we are solving for y.

Follow the same steps for solving an equation by doing the inverse operation

x – y = 11 subtract x from each side

-x -x

-y = 11 – x divide by -1 because you don’t want a negative y

-1 -1

y = 11 – x now write it so it looks like this y = mx + b

y = -x + 11 remember the sign goes with the number behind it

-2x – 3y = 27

+2x +2x

-3y = 27 + 2x now you need to divide both sides by -3

-3 -3

y = -9 + x leave the slope as a fraction

y = x + -9