1. To find the equation of the new line, we first need the gradient of the original line. Now,

$$50 = -5y - 5x$$
, so

$$5y = -5x - 50$$

$$y = -x - 10$$

Hence, the gradient of the original line is m = -1.

The new line is parallel to the original line, so it has the same gradient as the original line. Thus the equation of the line is y = -x + c and we can substitute the coordinates of the point $(x_1, y_1) = (3, -1)$ into this equation to get the value for c.

$$-1 = -1 \times 3 + c$$
, so $-1 = -3 + c$. Hence $c = -1 - (-3) = 2$.

Hence the equation of the line is y = -x + 2.

2. To find the equation of the new line, we first need the gradient of the original line. Now,

$$-7y + 7x = 0, \text{ so}$$
$$-7y = -7x$$
$$y = x$$

Hence, the gradient of the original line is m = 1.

The new line is parallel to the original line, so it has the same gradient as the original line. Thus the equation of the line is y = x + c and we can substitute the coordinates of the point $(x_1, y_1) = (-6, -5)$ into this equation to get the value for c.

$$-5 = 1 \times (-6) + c$$
, so $-5 = -6 + c$. Hence $c = -5 - (-6) = 1$.

Hence the equation of the line is y = x + 1.

3. To find the equation of the new line, we first need the gradient of the original line. Now,

$$-8 = 2x - 2y$$
, so

$$2y = 2x + 8$$

$$y = x + 4$$

Hence, the gradient of the original line is m = 1.

The new line is parallel to the original line, so it has the same gradient as the original line. Thus the equation of the line is y = x + c and we can substitute the coordinates of the point $(x_1, y_1) = (-5, -3)$ into this equation to get the value for c.

$$-3 = 1 \times (-5) + c$$
, so $-3 = -5 + c$. Hence $c = -3 - (-5) = 2$.

Hence the equation of the line is y = x + 2.