

1.4

1 Solve for  $y$ :

$$\frac{2}{3}x - \frac{1}{2}y = 55$$
$$-2\left(-\frac{1}{2}y\right) = \left(-\frac{2}{3}x + 55\right)$$
$$y = \frac{4}{3}x - 110$$

2 Solve for  $b$ :

$$x(2b + 1) = y$$
$$2b + 1 = \frac{y}{x}$$
$$\frac{1}{2}\left(2b = \frac{y}{x} - 1\right)$$
$$b = \frac{y}{2x} - \frac{1}{2}$$
$$\text{or } \frac{y-x}{2x}$$