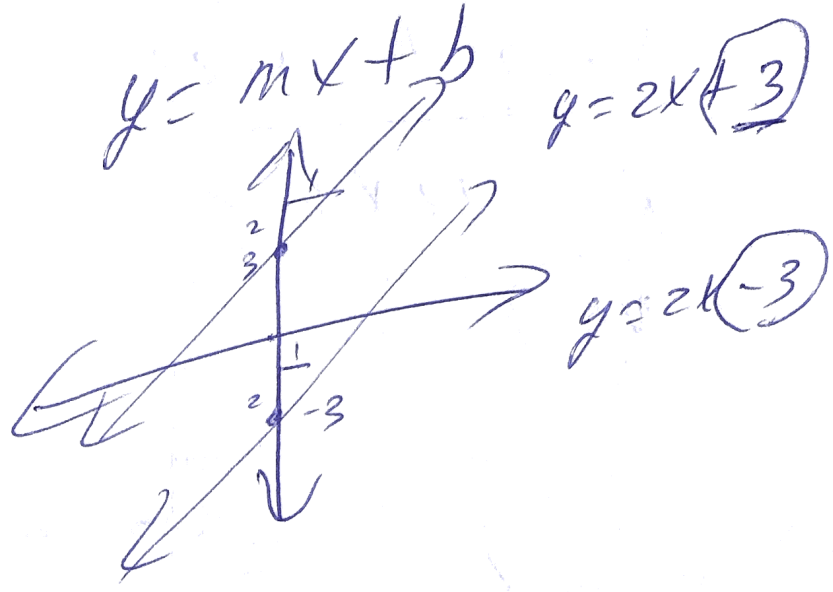
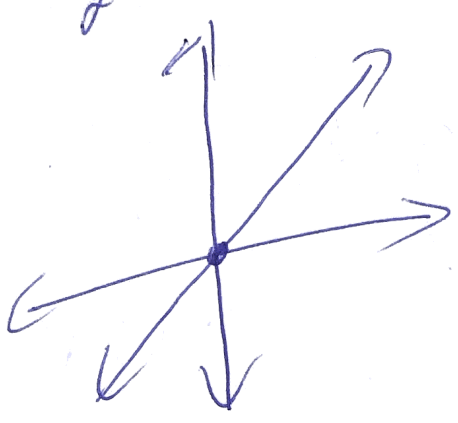


Note: Direct variation

$y = mx$
 $y = kx$



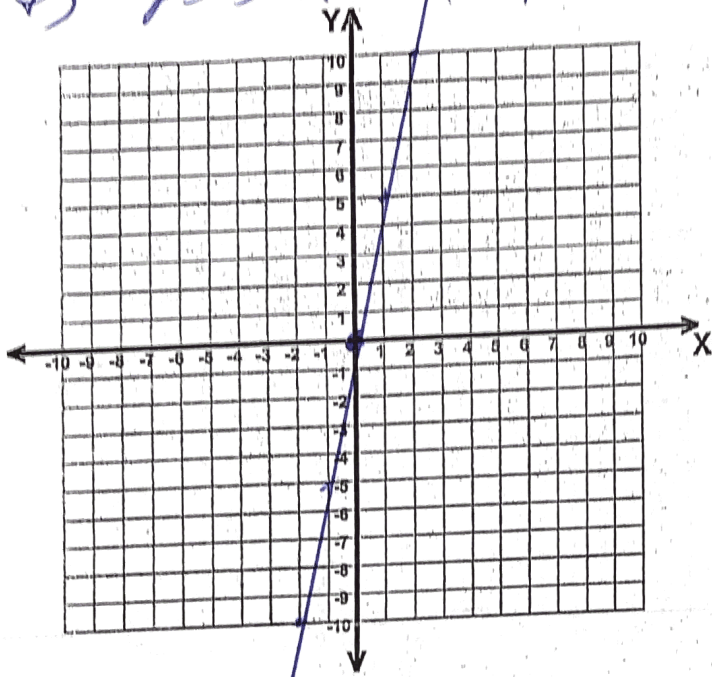
1) $\frac{-8y}{-8} = \frac{2x}{-8}$
 $y = -\frac{2}{8}x$
 $y = -\frac{1}{4}x$
yes $k = -\frac{1}{4}$

2) $\frac{3x + 4y}{-3x} = \frac{-5}{-3x}$
 $4y = \frac{-3x - 5}{4}$
 $y = -\frac{3}{4}x - \frac{5}{4}$
No

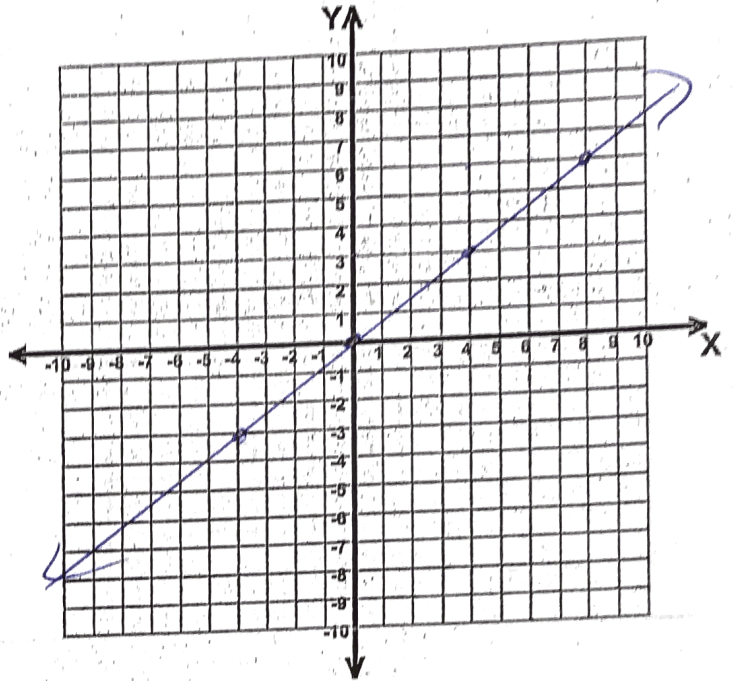
3) $\frac{12x}{-36} = \frac{-36y}{-36}$
 $-\frac{1}{3}x = y$
yes, $k = -\frac{1}{3}$

4) $\frac{-7 + 9y + 7}{9} = \frac{2x}{9}$
 $9y = 2x$
 $y = \frac{2}{9}x$
yes $k = \frac{2}{9}$

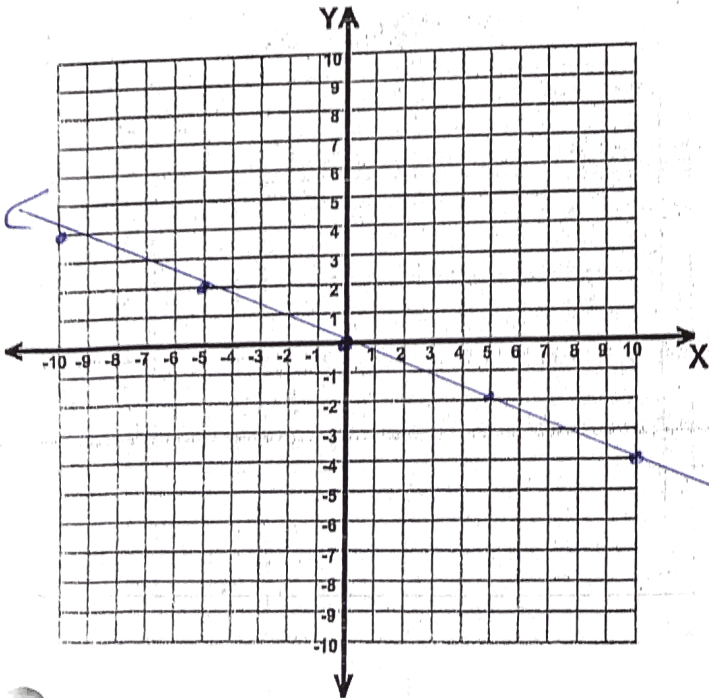
7) $y = 5x$ $\frac{5}{1}$



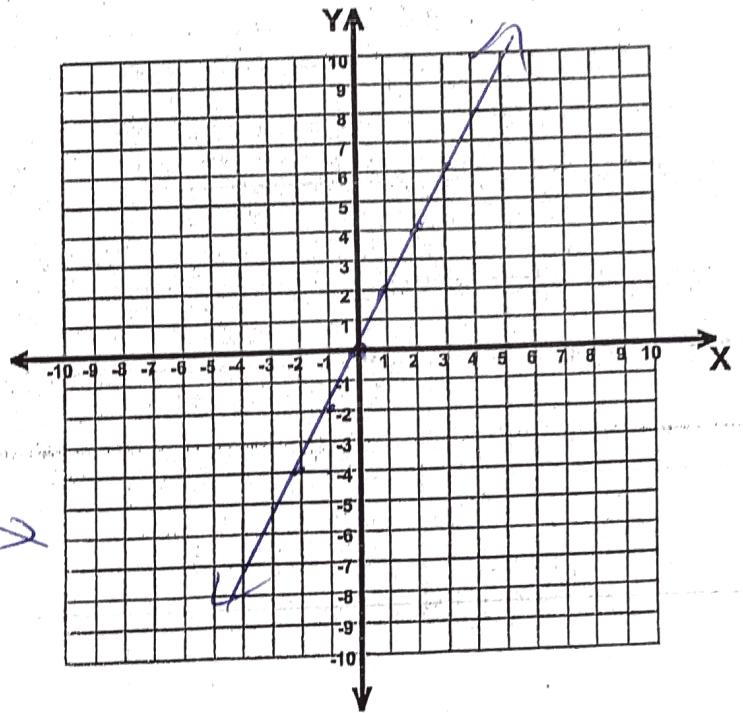
9) $y = \frac{3}{4}x$



8) $y = -\frac{2}{5}x$



10) $y = 2x$ $\frac{2}{1}$



$$11) y = 10 \quad x = 2$$

$$y = kx$$

$$y = 5x$$

$$y = 5(8)$$

$$y = 40$$

$$k = \frac{y}{x}$$

$$k = \frac{10}{2}$$

$$k = 5$$

$$12) y = 6$$

$$x = 18 \quad k = \frac{y}{x}$$

$$k = \frac{6}{18}$$

$$k = \frac{1}{3}$$

$$y = \frac{1}{3}x$$

$$y = \frac{1}{3}(8)$$

$$y = \frac{8}{3}$$

$$13) y = 1.85 \quad x = 0.925$$

$$k = \frac{y}{x} = \frac{1.85}{0.925}$$

$$k = 2$$

$$y = kx$$

$$y = 2x$$

$$y = 2(8)$$

$$y = 16$$

$$14) y = 4 \quad x = 8$$

$$k = \frac{y}{x} = \frac{4}{8} = \frac{1}{2}$$

$$y = kx$$

$$y = \frac{1}{2}x$$

$$y = \frac{1}{2}(8)$$

$$y = 4$$

$$15) y = 15 \quad x = 5$$

$$y = ? \text{ is } x = 8$$

$$k = \frac{y}{x} = \frac{15}{5} = 3$$

$$y = kx$$

$$y = 3x$$

$$y = 3(8)$$

$$y = 24$$

