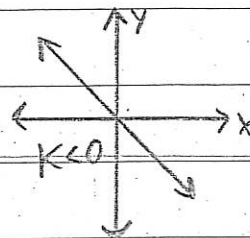
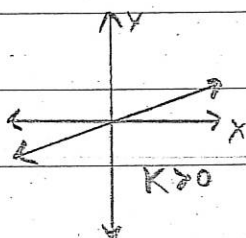


Direct Variation

$$y = kx$$

↑ Constant of Variation (slope)

Graphs of
Direct
Variations



Tell whether y varies directly with x . If it does, write an equation.

①	<table><tr><th>X</th><th>Y</th></tr><tr><td>4</td><td>6</td></tr><tr><td>8</td><td>12</td></tr><tr><td>10</td><td>15</td></tr></table>	X	Y	4	6	8	12	10	15	$6 \div 4 = 1.5$ $12 \div 8 = 1.5$ $15 \div 10 = 1.5$	Yes, y varies directly with x
X	Y										
4	6										
8	12										
10	15										

$$y = 1.5x$$

②	<table><tr><th>x</th><th>y</th></tr><tr><td>-2</td><td>3.2</td></tr><tr><td>1</td><td>2.4</td></tr><tr><td>4</td><td>1.6</td></tr></table>	x	y	-2	3.2	1	2.4	4	1.6	$3.2 \div (-2) = -1.6$ $2.4 \div 1 = 2.4$ $1.6 \div 4 = .4$	No, y does not vary directly with x
x	y										
-2	3.2										
1	2.4										
4	1.6										

③ Graph $y = -3x$

