

NAME :

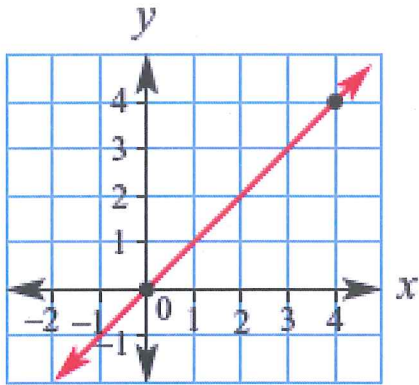
YEAR 9 : LINEAR GRAPHS

Consider the following questions about the linear graphs :

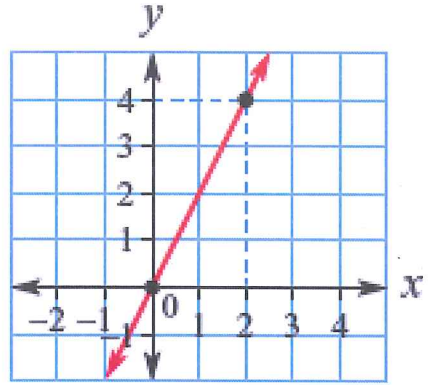
1. What do you notice about all the equations ?
2. Do all the graphs cross the X-axis ?
3. Do all the graphs cross the Y-axis ?
4. Do any graphs cross the axes more than once ?
5. What do you notice about the slope of the lines ?
6. How do you know if a line will slope from top right to bottom left ?
7. How do you know if a line will slope from top left to bottom right ?
8. How do you know a line will be parallel to the X-axis ?
9. How do you know a line will be parallel to the Y-axis ?
10. Any thing else that you notice ?

YEAR 9 : LINEAR GRAPHS

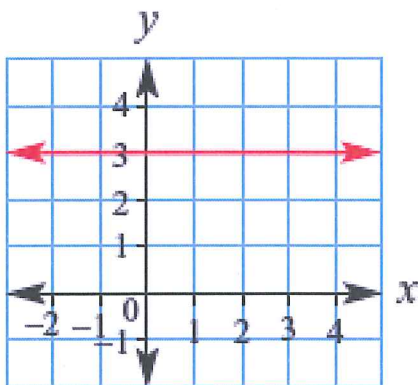
$$y = x$$



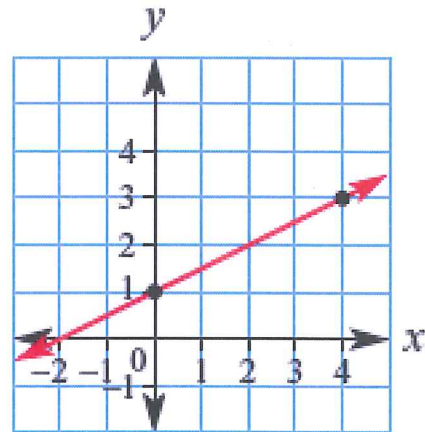
$$y = 2x$$



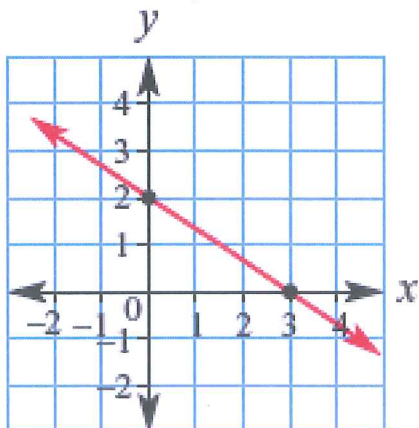
$$y = 3$$



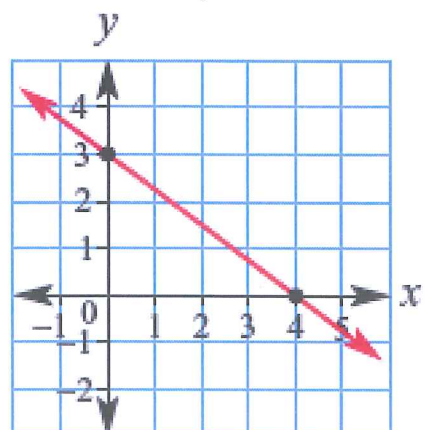
$$y = \frac{1}{2}x + 1$$



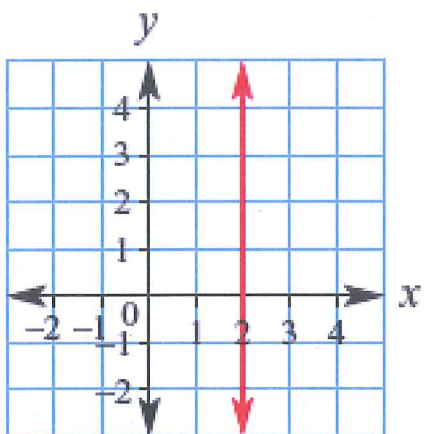
$$y = -\frac{2}{3}x + 2$$



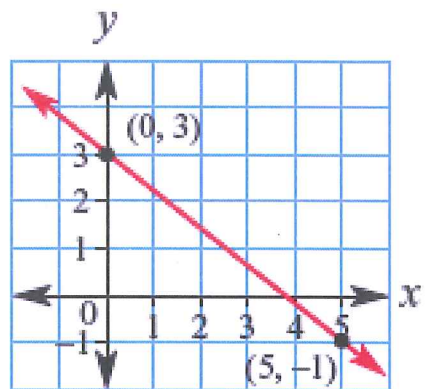
$$y = -\frac{3}{4}x + 3$$



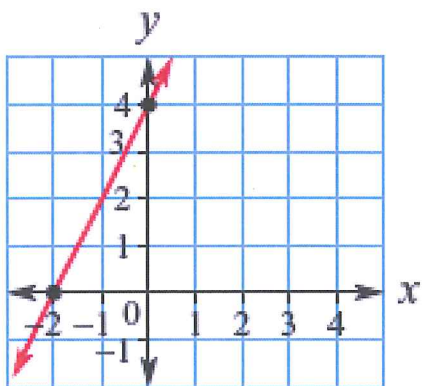
$$x = 2$$



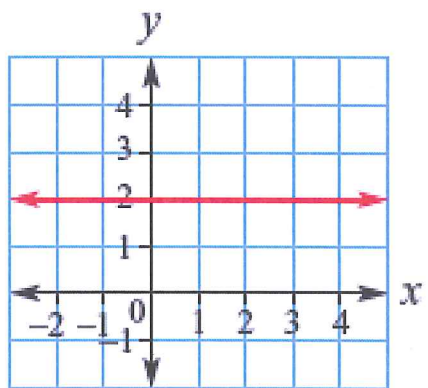
$$y = -\frac{3}{4}x + 3$$



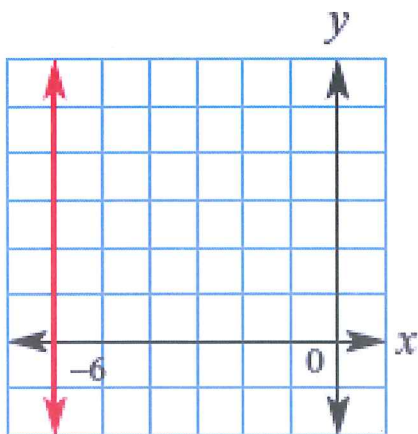
$$y = 2x + 4$$



$$y = 2$$



$$x = -6$$



$$y = -x$$

