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| What must you know about two lines before determining if they are parallel or perpendicular? Is the slope always seen in the equation? Y or NWhich below shows the slope? 1. $x=3$ B. $y = ½$ C. $y=\frac{1}{2}x$ D. $y-1=-\frac{1}{2}\left(x+3\right)$ E. $-3x+y=2$ F. $y=-3x+2$

Which below does not show the slope?1. $x=3$ B. $y = ½$ C. $y=\frac{1}{2}x$ D. $y-1=-\frac{1}{2}\left(x+3\right)$ E. $-3x+y=2$ F. $y=-3x+2$

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|  Are these lines parallel, perpendicular, or neither? Why ? | $x=-5 $ $$x=-4$$ | $$y=2$$$$x=3 $$ |
| $y=\frac{4}{5}x-1$ $y=\frac{4}{5}x+29$ | $y-2=-\frac{1}{3}\left(x-5\right)$ $-3x+y=15$ |
| Are these lines parallel, perpendicular, or neither? Why ? | $$y=4x$$$$y=-4 $$ | $$y=3 $$$$x=3$$ |
| $-2x+y=7$ $y=2x+3$ | $y=2x+5 $  $y=-2x+1$ |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_Date \_\_\_/\_\_\_\_/\_\_\_\_

Parallel and Perpendicular lines

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_Date \_\_\_/\_\_\_\_/\_\_\_\_

Parallel and Perpendicular lines



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| **Determine which graph(s) does not belong in each column Is the graph parallel, perpendicular, or neither?**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_Date \_\_\_/\_\_\_\_/\_\_\_\_Parallel and Perpendicular lines  |
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| **Determine whether the equations are parallel, perpendicular, or neither.** |
| $y=x+11 $ $y=-x+2$ | $y-4=-\frac{3}{2}\left(x+1\right)$  $y-2=-\frac{2}{3}\left(x-5\right)$ | $-2x+y=7$ $y=2x+3$ |
| $y=\frac{3}{4}x-1$ $$y=\frac{3}{4}x+29$$  | $y-2=-4\left(x-5\right)$ $\frac{1}{4}x+y=15$ | $y=4x-2$ $-x+4y=0 $ |
| $y=\frac{2}{3}x-1$ $3x-2y=5$ | $x=-2 $ $$x=-1$$ | $y=7 $ $$y=-7$$ | $ x=-2 $  $x=\frac{1}{2}$ | $$y=-7 $$$$x=-7$$ |
| $$y=2$$$$x=3 $$ | $$y=7x$$$$y=-\frac{1}{7}x $$ | $$y=7x$$$$y=-7 $$ | $$x=-\frac{1}{2}$$$$y=-2x $$ | A vertical line and the x-axis  | A horizontal line and the x-axis |