$\qquad$ Date $\qquad$ Class $\qquad$

## Skill: Using Slope

For Exercises 1-4, determine if the line that represents each equation has the same slope as the equation $\boldsymbol{y}=\mathbf{2 x} \mathbf{- 4}$.

1. $y=2 x+4$
2. $y=-2 x+3$
3. $y=4 x-2$
4. $y=3 x-4$
5. Which hill would it be easiest to push a heavy cart up, one with a slope of $\frac{1}{2}, \frac{1}{6}$, 3, or 5? Explain.
6. Which ski run would probably give you the greatest speed down a hill when you are skiing, one with a slope of $\frac{1}{8}, \frac{1}{4}, 1$, or 2 ?
7. Which roof would be the most dangerous for a roofer, one with a slope of $\frac{1}{16}, \frac{1}{10}, \frac{1}{2}$, or $\frac{3}{2}$ ?
8. Which of the slopes from Exercise 7 would be the easiest for the roofer?

Draw a line with the given slope through the given point.
9. $P(5,1)$, slope $=-\frac{1}{3}$
10. $K(-2,4)$, slope $=3$



