

Equations of lines–Test

- Short–answer questions

1. A ski resort planner works on designing **ski slopes**(滑雪场) . Find **the equations** of the following **slopes** (滑雪坡) :

- A slope with the slope 4 and passing through $(-2, 5)$
- A slope with the slope $\frac{2}{7}$ and passing through $(7, -2)$
- A slope passing through $(-3, 1)$ and $(2, 0)$
- A slope passing through points $(2, 0)$ and $(-1, -2)$



2. Find the slope and y -intercept of the following equations of the line.

- $x + 2y - 3 = 0$
- $4x - 3y + 7 = 0$
- $2x + 3y + 6 = 0$
- $y = -4$

3. Find the equation of the line with x -intercept 5 and y -intercept -2

Note: the picture is copied from <https://www.5280.com/ski-slope-etiquette-101-basic-rules-for-skiing-snowboarding-in-colorado/>