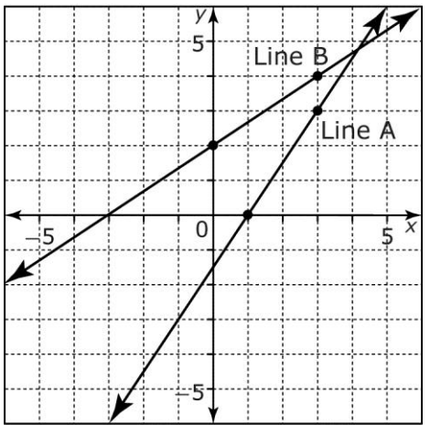
Slope Test Review **Name:** _____

1. Calculate the slope of each line.



a) Slope of Line A =

b) Slope of Line B =

2. A ramp is 5 feet along the ground and reaches a front step that is 2 feet above the ground.

a) Sketch a diagram. b) What is the **slope** of the ramp?

3. Solve each proportion.

a) $\frac{1}{8} = \frac{x}{24}$ **c)** $\frac{1}{7} = \frac{10}{x}$

b) $\frac{x}{18} = \frac{2}{3}$ **d)** $\frac{18}{6} = \frac{x}{5}$

4. A driveway rises 25 in. for every 250 in. of horizontal distance. Determine the slope of the driveway. Express the slope

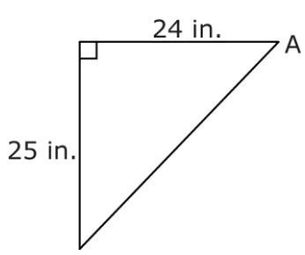
a) as a fraction _____

b) as a decimal _____

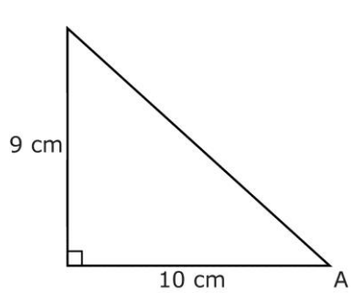
c) as a percent _____

5. Find the value of ∠A in each triangle. Round your answer to the nearest degree.

a)

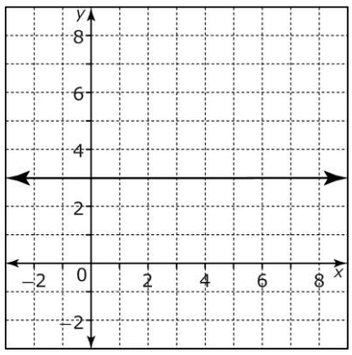


b)

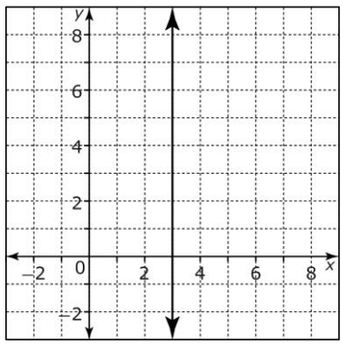


6. What is **slope** of each line shown in the graphs?

a)



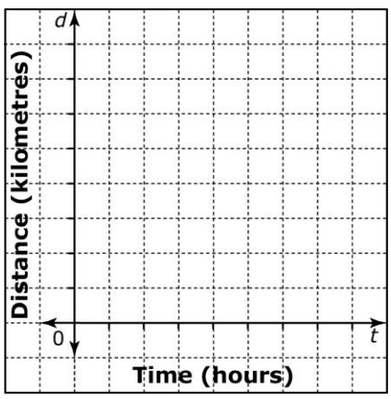
b)



7. The average speed of a tour bus going from Calgary to Winnipeg is 75 km/h. The table shows the distance travelled during each hour of the ride.

Time (h)	Distance (km)
1	75
2	150
3	225
4	300
5	375

a) Label the values on the x and y axis. Graph the data. Connect the points with a straight line.



b) What is the slope of the line?

c) How is the slope related to the rate of change in distance?

8. What angle does a ramp with a slope of 1:15 make with the ground?

a) Sketch a diagram.
b) Write the slope as a decimal.
c) Use the inverse tangent function to find the angle.