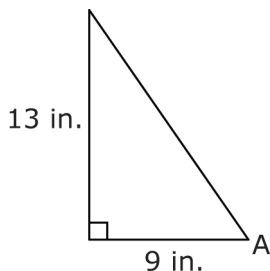


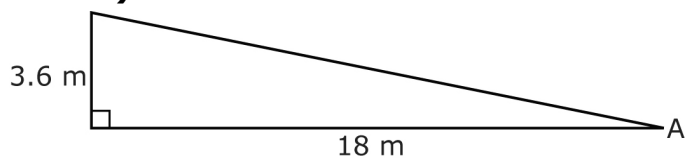
Section 6.2 Extra Practice

1. Determine the tangent ratio of $\angle A$ in each triangle.

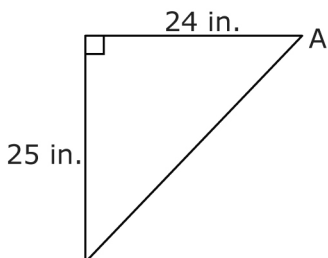
a)



b)



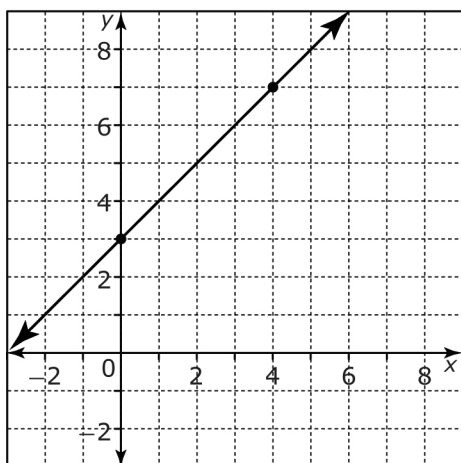
c)



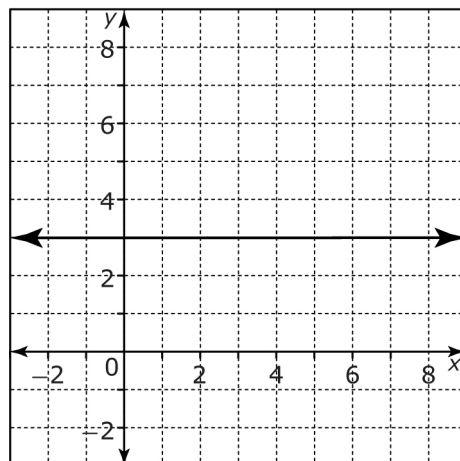
2. For each triangle in #1, determine the measure of $\angle A$ to the nearest degree.

3. Determine the slope of each line.

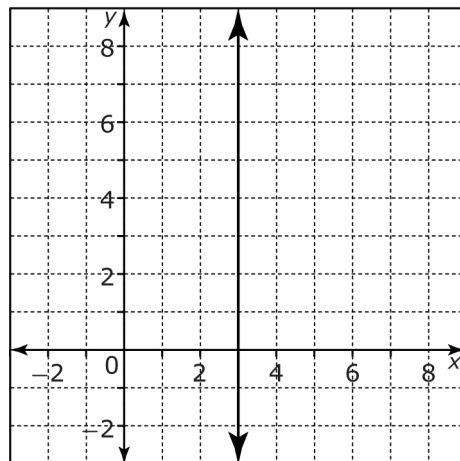
a)



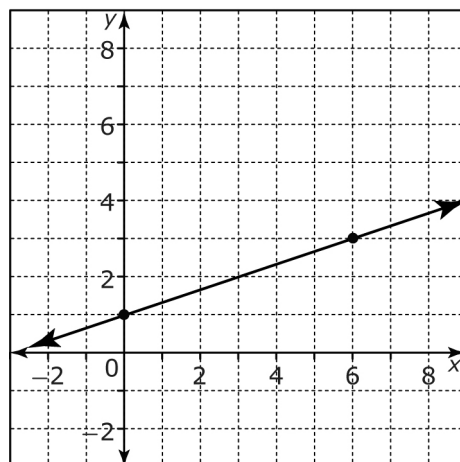
b)



c)



d)



Name: _____

Date: _____

BLM 6-7
(continued)

4. For each graph in #3, determine the measure of the angle of elevation. Express each answer to the nearest degree.
5. Suppose each line in #3 represents a road.
 - a) Which road would be the easiest to travel?
 - b) Which road would be impossible to travel? Why?
6. What angle does a ramp with a slope of 1:15 make with the ground?
7. A ramp has a steepness of 1 in. for every 20 in. of run.
 - a) For the ramp to rise 1 ft, how far along the ground should it be?
 - b) What is the angle of elevation of the ramp?

8. a) Explain the meaning of the sign shown.



- b) Write the slope of the road as a fraction.
9. Determine the angle of elevation of a road with each grade. Express your answers to the nearest degree.
 - a) 10%
 - b) 3%
 - c) 8%
 - d) 25%
10. A driveway rises 6 inches over 90 inches along the ground. What is the grade of the driveway?



Name: _____

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BLM 6-7
(continued)

- 11.** The table shows details of the grades of roads. Complete the table. Express slope as a decimal to the nearest hundredth.

Road	Rise	Run	Slope as a Fraction	Slope as a Decimal	Percent Grade
Atlantic Avenue	200	1000			
Bay Bypass	6	50			
City Crescent			$\frac{23}{80}$		
Downtown Drive			$\frac{2}{25}$		
Harbour Highway				0.09	
Rural Road				0.2	
Suburb Speedway					2%
Tickle Trail					7.5%

- 12.** Refer to the table you completed in #11.
- a)** Which roads require a warning sign?
 - b)** Which roads could not exist because the grades are so steep?

