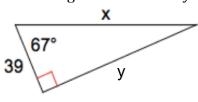
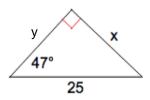
Directions: Find the value of the given variables by using trigonometric ratios.

1)

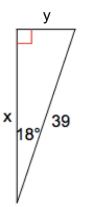


$$x = \underline{\hspace{1cm}} y = \underline{\hspace{1cm}}$$

2)

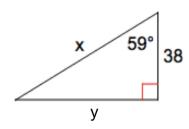


3)



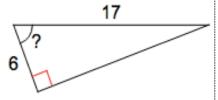
x = ____ *y* = ___

4)

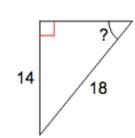


Directions: Find the indicated measures.

5)

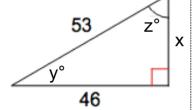


? =



? = _

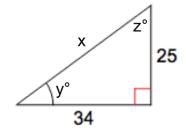
7)



x = _____ *y* = _____ *z* = _____

8)

6)



| Directions: Find the | indicated measures. | |
|--|---|---|
| 9) | 45 53° x | 10) 45 68° 42° x |
| Directions: Find th | e area of the given triangle. | |
| 11) | 46° 38° 47 | 12) |
| Area: | | Area: |
| forget to include un 13) Angie looks 13° to see an airpla flying with an altitu | up at an angle of elevation of the flying. If the plane were ude of 4.75 miles, what straight d the plane travel before it is | 14) Mike and Andy are standing directly across from each other on opposite sides of a river. Directly to Mike's right, he sees a tree that is 20 ft. away. Andy sees the same tree at an angle of 32°. How wide is the river between Mike and Andy? (Assume the tree is perpendicular to Mike and Andy) |

Answer: _____

Answer: _____