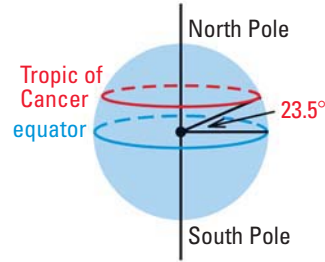
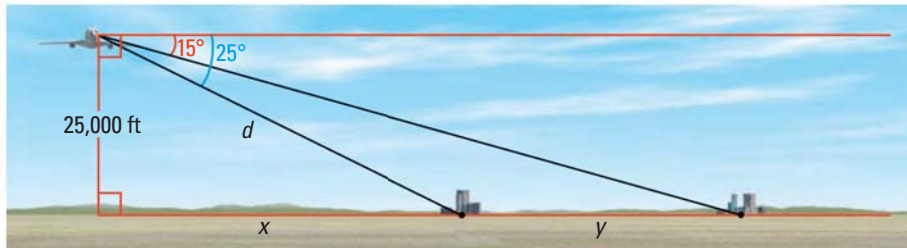


35. **TROPIC OF CANCER** The Tropic of Cancer is the circle of latitude farthest north of the equator where the sun can appear directly overhead. It lies 23.5° north of the equator, as shown.

- Find the circumference of the Tropic of Cancer using 3960 miles as Earth's approximate radius.
- What is the distance between two points on the Tropic of Cancer that lie directly across from each other?



36. **TAKS REASONING** A passenger in an airplane sees two towns directly to the left of the plane.



- What is the distance d from the airplane to the first town?
 - What is the horizontal distance x from the airplane to the first town?
 - What is the distance y between the two towns? *Explain* the process you used to find your answer.
37. **CHALLENGE** You measure the angle of elevation from the ground to the top of a building as 32° . When you move 50 meters closer to the building, the angle of elevation is 53° . How high is the building?



MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW

Lesson 4.8;
TAKS Workbook

38. **TAKS PRACTICE** The height h (in feet) of a horseshoe tossed during a game of horseshoes is $h = -16t^2 + 30t + 2$ where t is the time (in seconds). About how long is the horseshoe in the air? **TAKS Obj. 5**

- (A) 1.4 sec (B) 1.9 sec
(C) 2.9 sec (D) 3.6 sec

REVIEW

Lesson 9.1;
TAKS Workbook

39. **TAKS PRACTICE** Rectangle $KLMN$ has diagonals that intersect at point P . What are the coordinates of point L ? **TAKS Obj. 7**

- (F) $(-1, 5)$
(G) $(-1, 14)$
(H) $(5, 5)$
(J) $(5, 14)$

