ANSWERS

1. $x = 61$ m
2. $x = 2556.$ m
3. $x = 15.9$ ft
4. $x = 189.9$ m
5. Height of kite: 78 ft.; Ground distance from man to kite: 61.6 ft
6. $x = 59.3$ m
7. The plane must climb at an angle greater than 16.7°
8. $\theta = 68.2°$
9. 68 cm^2
10. Legs: 5.3 & 10.7 ; Hypotenuse: 12
11. First ship: 2399.2 m; Second ship: 4343.4 m; Distance between ships: 1944.2 m
12. 36.5 cm