

7-25.

They are not congruent. Although by the Triangle Angle Sum Theorem all the corresponding angles are congruent, the 44-cm sides are not corresponding sides.

7-26.

No. **AAA** is not a congruence condition.

7-27.

a. no solution

b. **(7, 2)**

c. **(-1, -2)**

d. **(3, 1)**

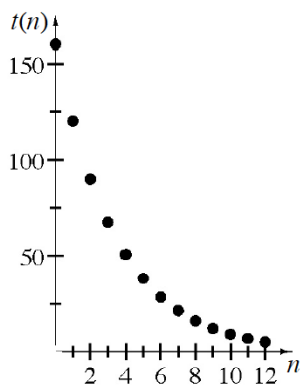
7-28.

a. **90** cm

b. **37.97** cm

c. **$t(n) = 160(0.75)^n$**

7-29.



7-30.

$d = 55t$ and **$(325 - d) = 70t$** or **$325 = 55t + 70t$** , where **d** = distance Esther traveled (miles) and **t** = time Esther traveled (hours). **2 hours 36 minutes**