

(1) a)  $\alpha = 14.48^\circ$

b)  $\alpha = 24.83^\circ$

c)  $c = 8.00 \text{ cm}$

d)  $a = 3.42 \text{ cm}$

(2) a)  $\alpha = 43.95^\circ$

b)  $c = 10.04 \text{ cm}$

c)  $b = 19.15 \text{ cm}$

d)  $\alpha = 50.21^\circ$

(3) a)  $\alpha = 10.20^\circ$

b)  $\alpha = 45.00^\circ$

c)  $a = 4.20 \text{ cm}$

d)  $b = 10.00 \text{ cm}$