1. ABC is a triangle. Given the angle at C, the opposite side AB and the adjacent side BC respectively, find the angle at A. (all distances in cm, answers to 2 d.p.)

(a) 45^o , 7, 9 (b) 60^o , 12, 8 (c) 75^o , 11, 7

(d) 65^o , 10, 6 (e) 42^o , 13, 5 (f) 39^o , 15, 5

(g) 68^o , 14, 6 (h) 25^o , 7, 5 (i) 55^o , 20, 16

2. ABC is a triangle. Given the angle at C, the opposite side AB and the angle at B respectively, find the length of the side AC. (all distances in cm, answers to 2 d.p.)

(a) 49^o , 8, 55^o (b) 55^o , 5, 75^o (c) 53^o , 12, 49^o

(d) 86^o , 14, 31^o (e) 76^o , 11, 19^o (f) 63^o , 12, 52^o

(g) 58^o , 9, 71^o (h) 41^o , 17, 48^o (i) 35^o , 24, 44^o

3. ABC is a triangle. Given the angles at B and C and the length of BC respectively, find the length of the sides AB and AC. (all distances in cm, answers to 2 d.p.)

(a) 36^o , 24, 51^o (b) 29^o , 19, 38^o (c) 27^o , 22, 35^o

(d) 34^o , 36, 43^o (e) 33^o , 19, 45^o (f) 35^o , 18, 67^o

(g) 31^o , 27, 45^o (h) 44^o , 64, 12^o (i) 35^o , 33, 80^o

1.

(a) 65.39^o (b) 35.26^o (c) 37.93^o

(d) 32.94^o (e) 14.91^o (f) 12.11^o

(g) 23.41^o (h) 17.57^o (i) 40.94^o

2.

(a) 8.68 (b) 5.90 (c) 11.34

(d) 7.23 (e) 3.69 (f) 10.61

(g) 10.03 (h) 19.26 (i) 29.07

3.

(a) 14.13, 18.68 (b) 10.01, 12.71 (c) 11.31, 14.29

(d) 20.66, 25.20 (e) 10.58, 13.74 (f) 10.56, 16.94

(g) 14.33, 19.68 (h) 53.63, 16.05 (i) 20.88, 35.86