

### 3D Trigonometry Workout

Question 1:

- (a) 8.39cm                      (b) 13.05cm                      (c)  $50^\circ$

Question 2:

- (a) 5.66cm                      (b) 32.25cm

Question 3:

- (a) 14.14cm                      (b)  $35.26^\circ$

Question 4:

- (a)  $23.20^\circ$                       (b)  $53.13^\circ$                       (c) 7.62cm                      (d)  $27.70^\circ$

Question 5:

- (a) 3.28cm                      (b) 9.58cm                      (c) 26.57cm                      (d)  $7.03^\circ$

Question 6:

- (a) 6.24cm                      (b) 17.89cm                      (c) 18.87cm                      (d)  $57.99^\circ$   
(e)  $26.57^\circ$                       (f)  $90^\circ$

Question 7:

- (a) 14.14cm                      (b)  $66.87^\circ$                       (c) 16.55cm

Question 8:

$37.55^\circ$

Question 9:

- (a) 9.8cm                      (b)  $67.8^\circ$

### Apply

Question 1:  $21.33^\circ$

Question 2:  $26128\text{cm}^3$  (5sf)

Question 3:

- (a)  $38.29^\circ$                       (b)  $54.53^\circ$                       (c)  $45^\circ$                       (d)  $135^\circ$