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| *XYZ* is a right-angled triangle.    Calculate the length of *XZ*.  Give your answer correct to 3 significant figures.                      ......................................................................................  **(Total for Question is 3 marks)** | *XYZ* is a right-angled triangle.    Calculate the length of *XZ*.  Give your answer correct to 3 significant figures.                      ......................................................................................  **(Total for Question is 3 marks)** |
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| The diagram shows a ladder leaning against a vertical wall.    The ladder stands on horizontal ground. The length of the ladder is 6 m. The bottom of the ladder is 2.25 m from the bottom of the wall. A ladder is safe to use when the angle marked *y* is about 75°.  Is the ladder safe to use?  You must show all your working.                  **(Total for Question is 3 marks)** | The diagram shows a ladder leaning against a vertical wall.    The ladder stands on horizontal ground. The length of the ladder is 6 m. The bottom of the ladder is 2.25 m from the bottom of the wall. A ladder is safe to use when the angle marked *y* is about 75°.  Is the ladder safe to use?  You must show all your working.                  **(Total for Question is 3 marks)** |
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| The diagram shows a pyramid.    *BCDE* is a square with sides of length 10 cm. The other faces of the pyramid are equilateral triangles with sides of length 10 cm.  Find the size of angle *DAB*.                  ...............................................................  **(Total for Question is 2 marks)** | The diagram shows a pyramid.    *BCDE* is a square with sides of length 10 cm. The other faces of the pyramid are equilateral triangles with sides of length 10 cm.  Find the size of angle *DAB*.                  ...............................................................  **(Total for Question is 2 marks)** |
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| *ABC* is a triangle.    Work out the length of the side *AB*.       Give your answer correct to 3 significant figures.                  ..........................................................................  **(Total for Question is 3 marks)** | *ABC* is a triangle.    Work out the length of the side *AB*.       Give your answer correct to 3 significant figures.                  ..........................................................................  **(Total for Question is 3 marks)** |
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| Diagram NOT accurately drawn  *ABC* is a triangle. *AB* = 8.7 cm. Angle *ABC* = 49°. Angle *ACB* = 64°.  Calculate the area of triangle *ABC*. Give your answer correct to 3 significant figures.                  . . . . . . . . . . . . . . . . . . . . . cm2  **(Total for Question is 5 marks)** | Diagram NOT accurately drawn  *ABC* is a triangle. *AB* = 8.7 cm. Angle *ABC* = 49°. Angle *ACB* = 64°.  Calculate the area of triangle *ABC*. Give your answer correct to 3 significant figures.                  . . . . . . . . . . . . . . . . . . . . . cm2  **(Total for Question is 5 marks)** |
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