Pythagoras and trigonometry in 3D

Exit ticket Name _____

1. A cuboid is 12 cm by 9 cm by 8 cm tall. Find the angle θ between the diagonal AG and the base.

2. A pyramid has a square base of side 6 cm. Its top is 8 cm above the centre of the base. Find the angle θ between a sloping edge and the base.

3. A cuboid is 2 cm by 3 cm by 6 cm tall. Find the length of AG and the angle θ it makes with the base.

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