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| **Topic 3: Geometry and Trigonometry** | **Angles of Depression and Elevation** | |
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| The diagram below shows a trapeze artist at point T, 60 ft. vertically above the ground. Point C is the point on the ground directly below the trapeze artist.  C:\Users\wilkied\Pictures\Saved Pictures\Camerons triangle.jpg \* Diagram not to scale   1. Find the size of the angle of depression from T to A and label it on the diagram above.   (b) Find the distance from C to A  (c) Cameron walks closer to point C and stops at point B and looks upward at an angle of 48°. Find the distance from A to B. | | (1 mark)  (2 marks)  (3 marks) |
| Mark scheme:  (a)  Diagram: [1 mark]  (b) CA = **OR** CA = **OR** (M1)  CA = (92.39189…) A1  (c) **Method 1**  Attempt to find BC  BC =  (52.15720…) (A1)  AB = 92.39189… - 52.15720…  = (40.23469…) | | (A1)  (A1)     (M1)(A1)  2 marks  (M1)  (A1)  A1 |