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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 scale1. 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 |