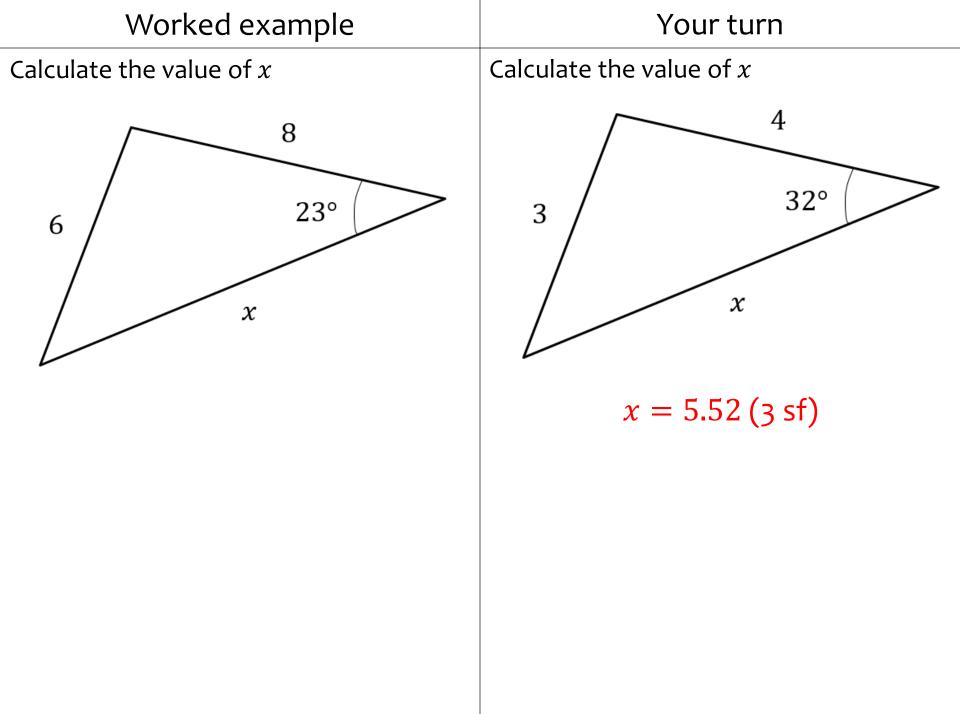
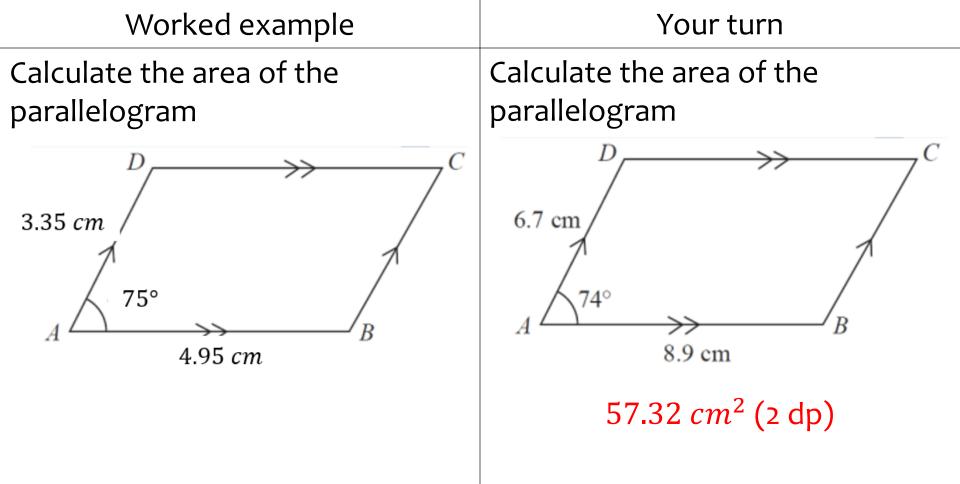
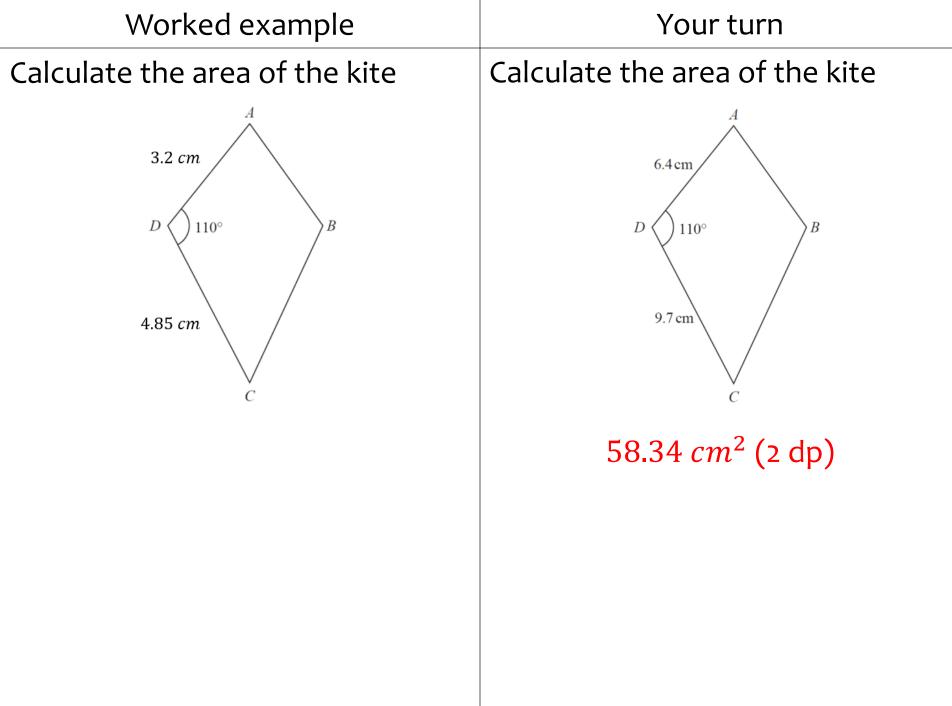
9.4) Solving triangle problems







Worked example	Your turn
phone masts in a field. $BC = 75 m, CD = 80m$, angle $BCD = 55^{\circ}$ and angle $ADC = 140^{\circ}$. In order that the masts do not interfere with each other, they must be at least 65m apart. Given that A is the minimum distance from D, find: a) The distance A is from B b) The angle BAD c) The area enclosed by the four masts.	The diagram shows the locations of four mobile phone masts in a field. $BC = 75 m, CD = 80m$, angle $BCD = 55^{\circ}$ and angle $ADC = 140^{\circ}$. In order that the masts do not interfere with each other, they must be at least 70m apart. Given that <i>A</i> is the minimum distance from <i>D</i> , find: a) The distance <i>A</i> is from <i>B</i> b) The angle BAD c) The area enclosed by the four masts. a) 9.21 m (3 sf) b) 50.3° (3 sf) c) 4940 m ² (3 sf)