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| --- | --- |
| Name the type of triangle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name the type of angle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Name the type of triangle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name the type of angle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Name the type of triangle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name the type of angle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Name the type of triangle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name the type of angle:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  *PQ* is a straight line.(a) Work out the size of the angle marked *x*°...............................°**(1)** (b) (i) Work out the size of the angle marked *y*°...............................°(ii) Give reasons for your answer.......................................................................................................................................................................................**(3)****(Total 4 marks)** |  *PQ* is a straight line.(a) Work out the size of the angle marked *x*°...............................°**(1)** (b) (i) Work out the size of the angle marked *y*°...............................°(ii) Give reasons for your answer.......................................................................................................................................................................................**(3)****(Total 4 marks)** |
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|   DIAGRAM NOT DRAWN ACCURATELYABCDEF is a regular hexagon and ABQP is a square. Angle CBQ = x°.Work out the value of x.x = ...............................**(Total 4 marks)** |   DIAGRAM NOT DRAWN ACCURATELYABCDEF is a regular hexagon and ABQP is a square. Angle CBQ = x°.Work out the value of x.x = ...............................**(Total 4 marks)** |
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| Diagram **NOT** accurately drawn *BA* is parallel to *EGD*. *BGC* is parallel to *EF*. Angle *ABC* = 63°.(a) (i) Find the size of angle *x*...................................(ii) Give a reason for your answer.......................................................................................................................................................................................**(2)** (b) Work out the size of angle *y*...................................  **(1)****(Total 3 marks)** | Diagram **NOT** accurately drawn *BA* is parallel to *EGD*. *BGC* is parallel to *EF*. Angle *ABC* = 63°.(a) (i) Find the size of angle *x*...................................(ii) Give a reason for your answer.......................................................................................................................................................................................**(2)** (b) Work out the size of angle *y*...................................  **(1)****(Total 3 marks)** |
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| Diagram **NOT** accurately drawn The diagram shows a circle centre O. A, B and C are points on the circumference. DCO is a straight line. DA is a tangent to the circle. Angle ADO = 36° (a) Work out the size of angle *AOD*.................................. °**(2)**(b) (i) Work out the size of angle *ABC*.................................. °(ii) Give a reason for your answer.....................................................................................................................................................................................**(3)****(Total 5 marks)** | Diagram **NOT** accurately drawn The diagram shows a circle centre O. A, B and C are points on the circumference. DCO is a straight line. DA is a tangent to the circle. Angle ADO = 36° (a) Work out the size of angle *AOD*.................................. °**(2)**(b) (i) Work out the size of angle *ABC*.................................. °(ii) Give a reason for your answer.....................................................................................................................................................................................**(3)****(Total 5 marks)** |
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| Diagram **NOT** accurately drawn *ABCD* is a square.*BEC* and *DCF* are equilateral triangles.Prove that triangle *ECD* is congruent to triangle *BCF.* **(Total 3 marks)** | Diagram **NOT** accurately drawn *ABCD* is a square.*BEC* and *DCF* are equilateral triangles.Prove that triangle *ECD* is congruent to triangle *BCF.* **(Total 3 marks)** |
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