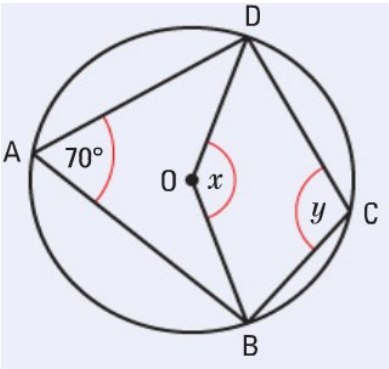
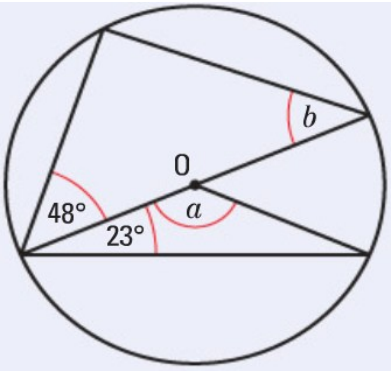
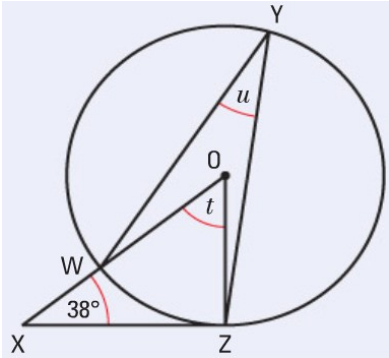
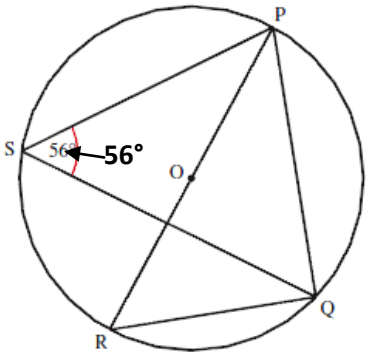
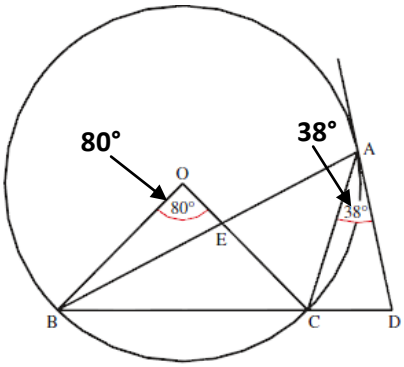
Tick or Trash—Circle Theorems

Nikki		Gavin
Angle x is equal to 140°		Angle y is equal to 140°
Angle b is equal to 52°		Angle a is equal to 134°
Angle u is equal to 26°		Angle u is equal to 52°
Angle PQR is equal to 124°		Angle RPQ is equal to 34°
Angle BAC is equal to 40°		Angle OCB is equal to 40°

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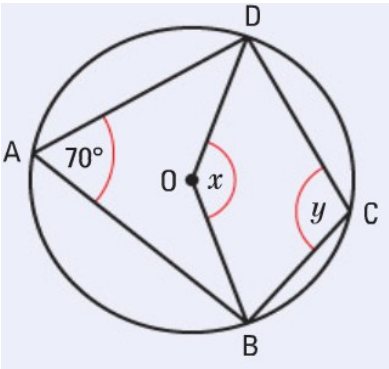
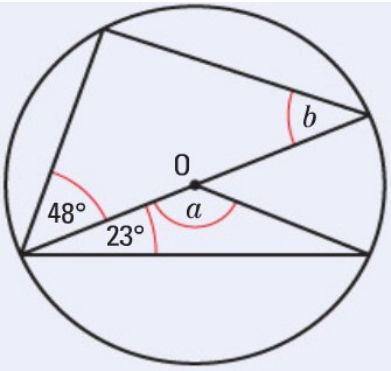
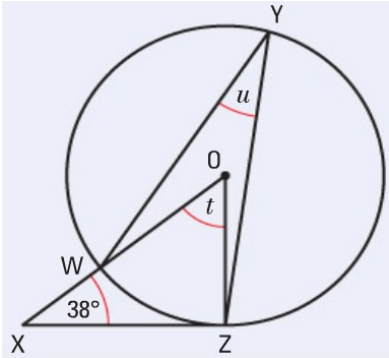
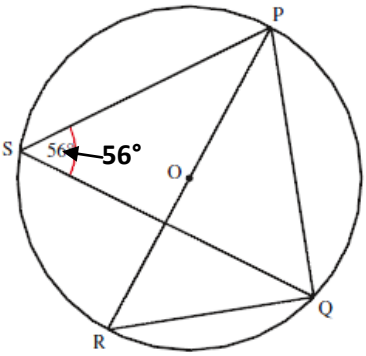
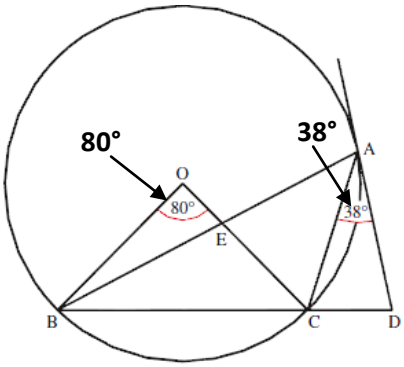
Angle x is equal to 140° ✓ Angle at centre double angle at circumference		Angle y is equal to 140° Angle y is 110°, as it is opposite angle in cyclic quadrilateral
Angle b is equal to 52° Angle b is 42°, as it is in a right angled tri-angle (diameter)		Angle a is equal to 134° ✓ Isosceles triangle
Angle u is equal to 26° ✓ Angle at centre double angle at circumference, and XZO is 90°		Angle u is equal to 52° Angle t is 52°, as ZO is a radius and so XZO is 90°
Angle PQR is equal to 124° Angle PQR is 90°, as PR is a diameter		Angle RPQ is equal to 34° ✓ PRQ = 56° (same segment) PQR = 90° (semicircle)
Angle BAC is equal to 40° ✓ Angle at centre double angle at circumference		Angle OCB is equal to 40° Angle OCB is 50°, as triangle OCB is isos-celes