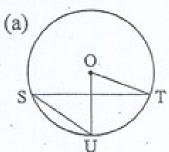
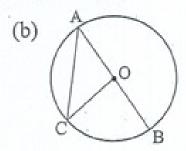
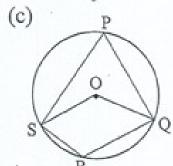
6.3 Exercise-Angles In A Linde

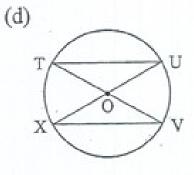
A Review the relationships with circles.

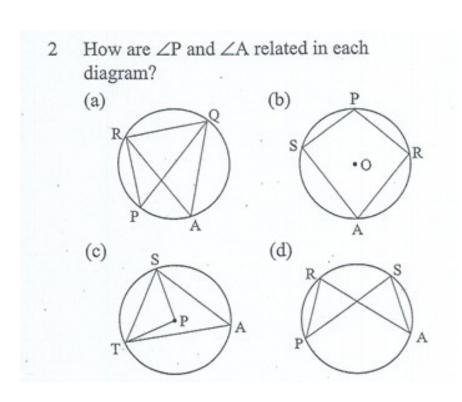
1 For each of the diagrams, name the inscribed angles and the central angles.



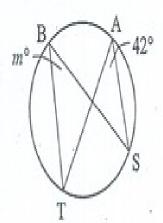




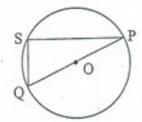




- 3 Refer to each diagram.
 - (a) Why is $\angle A = \angle B$? What is the value of m?



(b) What type of line segment is PQ? What is the measure of ∠S?



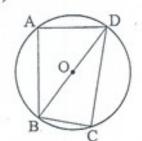
- An arc subtends each angle at the circumference. What is the measure of the corresponding central angle?

 - (a) 20° (b) 40° (c) 80°

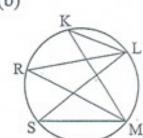
- An arc subtends each angle at the centre of 5 the circle. What is the measure of the corresponding inscribed angle at the circumference?
- (a) 80° (b) 50° (c) 110°

- B To find the missing measures in some problems, you need to use other properties of geometric figures.
- 6 For each diagram, which angles are equal?

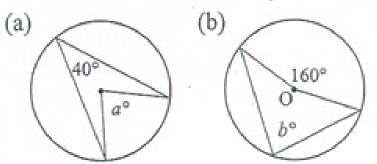




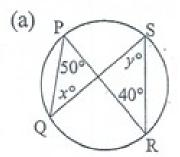
(b)

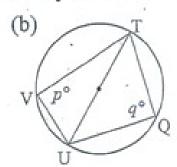


Which property of angles in a circle is used to find each measure? Find each missing measure. Give reasons for your answers.



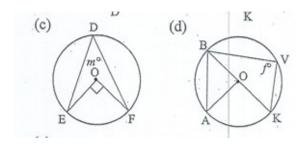
8 Which property of angles in a circle is used to find each measure? Find each missing measure. Give reasons for your answers.

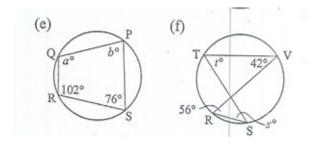




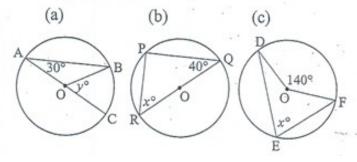
9 Find the missing measures. Do not use your protractor.

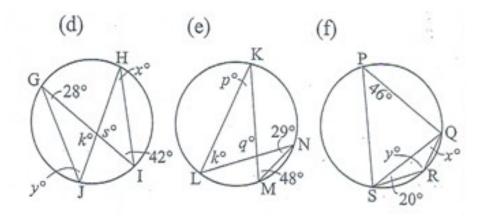
(a) B
(b) p°
106° A
28°
28°

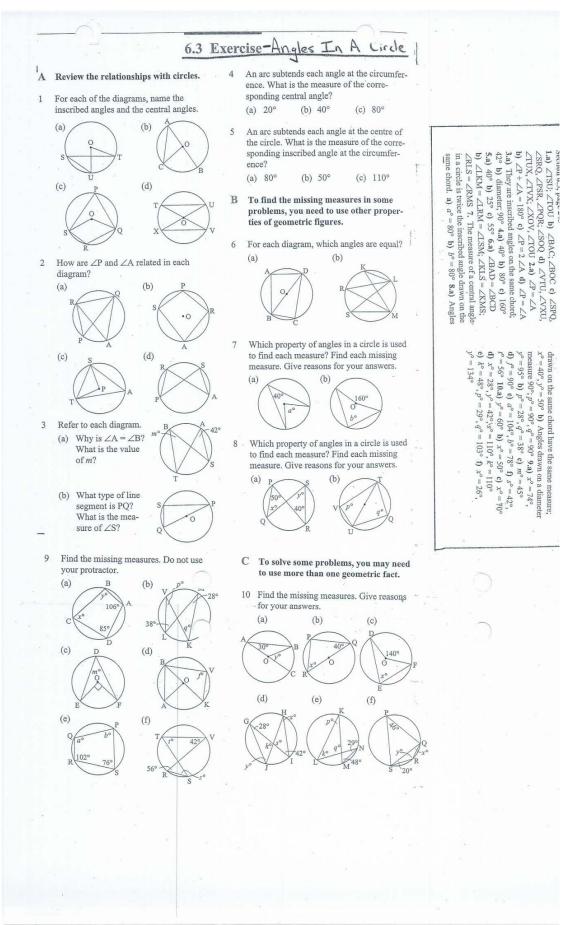




- C To solve some problems, you may need to use more than one geometric fact.
- 10 Find the missing measures. Give reasons for your answers.



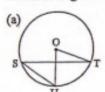


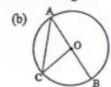


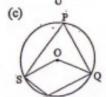
6.3 Exercise

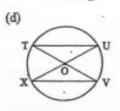
A Review the relationships with circles.

 For each of the diagrams, name the inscribed angles and the central angles.

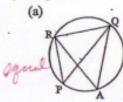


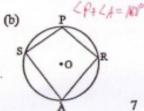


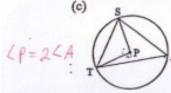


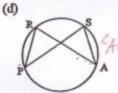


2 How are ZP and ZA related in each diagram?









- 3 Refer to each diagram.
 - (a) Why is ∠A = ∠B? What is the value of m?



(b) What type of line segment is PQ? What is the measure of ∠S?



4 An arc subtends each angle at the circumference. What is the measure of the corresponding central angle?

(a) 20°

(b) 40°

(c) 80°

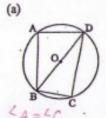
An arc subtends each angle at the centre of the circle. What is the measure of the corresponding inscribed angle at the circumference?

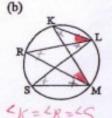
mice angle the

(b) 50°

(c) 110°

- B To find the missing measures in some problems, you need to use other properties of geometric figures.
- 6 For each diagram, which angles are equal?



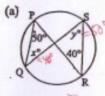


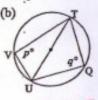
Which property of angles in a circle is used to find each measure? Find each missing measure. Give reasons for your answers.





Which property of angles in a circle is used to find each measure? Find each missing measure. Give reasons for your answers.





property II

