

## EXAM PAPERS PRACTICE

## Parallel Lines

## Question Paper



In the hexagon $A B C D E F, B C$ is parallel to $E D$ and $D C$ is parallel to $E F$.
Angle $D E F=109^{\circ}$ and angle $E F A=95^{\circ}$.
Angle $F A B$ is equal to angle $A B C$.
Find the size of
(a) angle $E D C$,
(b) angle $F A B$.
(c)


The diagram shows a circle, centre $O$.

Find the value of $z$.

$A B$ is the diameter of a circle, centre $O . C, D$ and $E$ lie on the circle.
$E C$ is parallel to $A B$ and perpendicular to $O D$. Angle $D O C$ is $38^{\circ}$.
Work out
(a) angle $B O C$,
(b) angle $C B O$,


Points $A, B$ and $C$ lie on a circle, centre $O$, with diameter $A B$.
$B D, O C E$ and $A F$ are parallel lines.
Angle $C B D=68^{\circ}$.

Calculate
(a) angle $B O C$,
(b) angle $A C E$.


NOT TO
SCALE
$A D$ is a diameter of the circle $A B C D E$.
Angle $B A C=22^{\circ}$ and angle $A D C=60^{\circ}$.
$A B$ and $E D$ are parallel lines.
Find the values of $w, x, y$ and $z$.

$A, B, C$ and $D$ lie on a circle centre $O . A C$ is a diameter of the circle.
$A D, B E$ and $C F$ are parallel lines. Angle $A B E=48^{\circ}$ and angle $A C F=126^{\circ}$. Find
(a) angle $D A E$,
(b) angle $E B C$,
(c) angle $B A E$.
(a)


Find the value of $x$.
(b)


Find the value of $y$.


NOT TO
SCALE

The diagram shows a straight line intersecting two parallel lines.
Find the value of $p$ and the value of $q$.

## Question 8



Find the value of $a$.


Triangle $A B C$ is isosceles and $A C$ is parallel to $B D$.
Find the value of $a$ and the value of $b$.

## Question 10



NOT TO
SCALE

Find the value of $p$.

$A B$ is parallel to $C D$.
Calculate the value of $x$.

