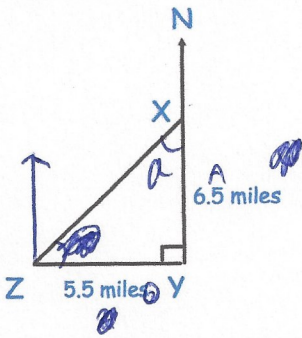


18th September



Corbettmaths



Calculate the distance XZ.

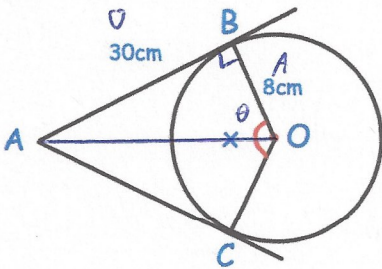
$$\begin{aligned} XZ^2 &= 6.5^2 + 5.5^2 \\ XZ^2 &= 72.5 \\ XZ &= 8.515 \text{ miles} \end{aligned}$$

What is the bearing of Z from X?

$$\begin{aligned} \tan a &= \frac{5.5}{6.5} \\ a &= 40.24^\circ \\ 220.24^\circ \end{aligned}$$

What is the bearing of X from Z?

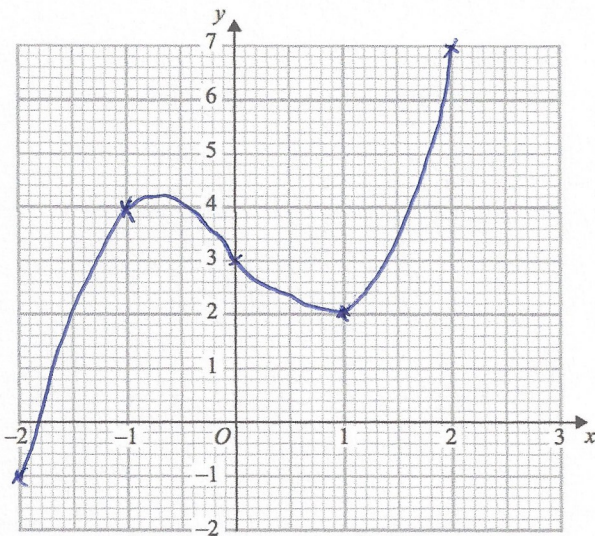
$$040.24^\circ$$



Find x

$$\begin{aligned} \theta &= \tan^{-1} \left( \frac{30}{8} \right) \\ &= 75.07^\circ \\ 150.14^\circ \end{aligned}$$

On the grid, draw the graph of  $y = x^3 - 2x + 3$  for the values of  $x$   $-2 \leq x \leq 2$



$x$	-2	-1	0
$y$	-1	4	3

$x$	1	2
$y$	2	7