**Summary:**

1 variation. Sin, cos and tan ratios. Arc length.

**Question:**

<EFOFEX>
id:fxd{905bc067-a07f-4b93-b393-ca2094b59ab5}

FXData:
</EFOFEX>A cone is produced by removing a quarter of a circle and joining the two edges. When you look at the code from the side, what angle is formed by the two sloping sides?

**Solution:**

Assume that the radius of the original circle = 1

<EFOFEX>
id:fxd{dacc9229-eeb9-4ab4-9541-8e9b56c158d7}
FXGP:DP-KUMVDM5
FXData:
</EFOFEX>

<EFOFEX>
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FXData:

</EFOFEX>

<EFOFEX>
id:fxd{907f718b-a162-41f8-a358-94432aebceec}
FXGP:DP-KUMVDM5
FXData:
</EFOFEX>

On this cross section of the cone you can see the radius of the base and the radius of the original circle which becomes the slope height of the cone.

<EFOFEX>
id:fxe{3aef7a91-4e05-4c37-8a94-a47a829da687}

FXData:

</EFOFEX>