

U5S1/U5S2: I can prove and identify theorems about perpendicular bisectors and angle bisectors.

1. \overline{BX} is the perpendicular bisector of \overline{AC} . What is the value of n ?

A. 0
B. $\frac{1}{4}$
C. 4
D. Not here



2. What information is sufficient to allow you to conclude that Y is on the bisector of $\angle E$?

A. $m\angle 1 = 90^\circ$
B. $m\angle 2 = 90^\circ$
C. $m\angle 1 = 90^\circ$ and $m\angle 2 = 90^\circ$
D. $m\angle FYE = m\angle DYE = 90^\circ$



3. Point Z is the circumcenter of $\triangle TUV$. What is the value of UV ?

F. 33.75
H. 50
G. 45
J. Not here



4. X is the in-center of $\triangle NPQ$. What MUST be true?

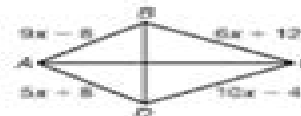
A. $KN = KP$
B. $XN = QX$
C. $XM = KX$
D. $NM = QL$



U5S3: I can prove and apply properties of perpendicular bisectors and angle bisectors.

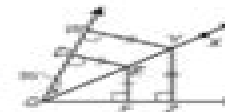
5. \overline{AC} is the perpendicular bisector of \overline{BD} . What is the value of x ?

A. 2.4
B. 4
C. $6\frac{2}{3}$
D. Not here



6. What is $m\angle XYZ$?

A. 70°
B. 125°
C. 145°
D. Not here



7. What is the distance from X to \overline{ON} ?

A. 8
B. 12.8
C. 11
D. 12



8. \overline{JK} has endpoints $J(1, 3)$ and $K(3, 5)$. The intersection of \overline{JK} and its perpendicular bisector is $(2, 4)$. Which is the equation for the perpendicular bisector of \overline{JK} ?

A. $y - 4 = 1(x - 2)$
B. $y - 4 = -1(x - 2)$
C. $y - 5 = -1(x - 3)$
D. $y - 5 = 1(x - 3)$

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JS Bruner



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