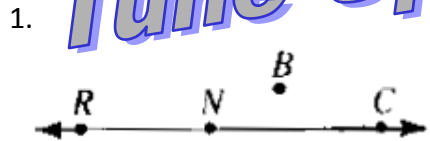
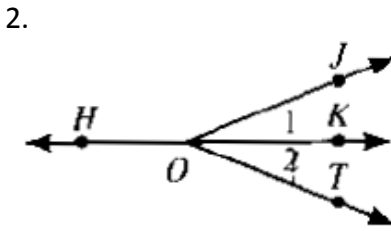


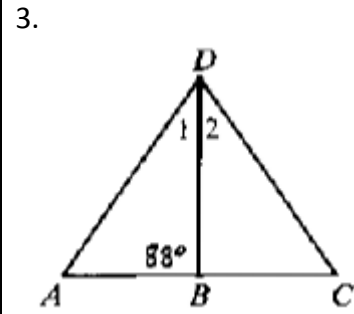
Tune-Up #2



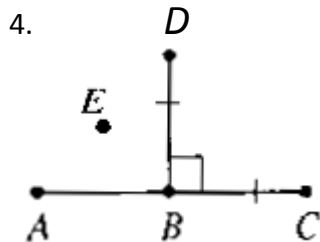
When $RN = 7$, $NC = 3x + 5$, and $RC = 18$, what is the value of x ?



$m\angle 1 + m\angle 2 = m\angle$ _____

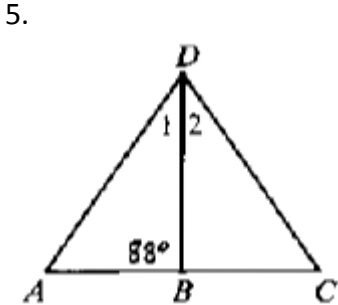


What kind of angle is $\angle CBD$?

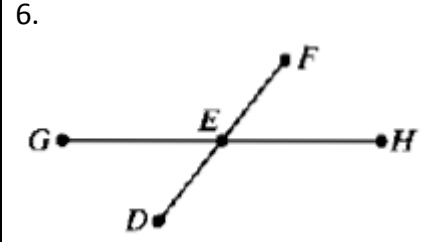


Which of the following four things stated *can't* you conclude from the diagram *and why*?

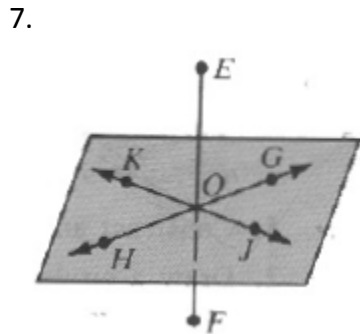
- $A, B,$ and C are collinear.
- $\angle DBC$ is a right angle.
- B is the midpoint of \overline{AC} .
- E is in the interior of $\angle DBA$.



\overline{DB} bisects $\angle ADC$, $m\angle 1 = 5x - 3$, and $m\angle 2 = x + 25$. Find the value of x .

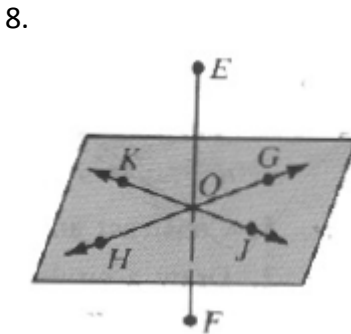


E is the midpoint of \overline{DF} . Find DF if $DE = 2x - 3$ and $EF = 5x - 24$.



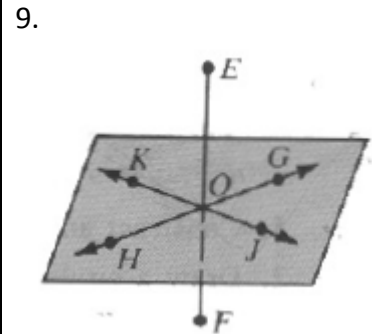
Which of the following sets of points are *not* coplanar?

- E, H, O, G
- K, O, G, E
- E, O, F, J
- H, K, O, J



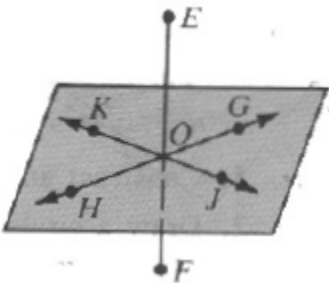
Which of the following sets of points are contained in *more* than one plane?

- G, O, J
- E, O, G
- E, H, G
- G, O, H



How many planes contain point E and \overline{JK} ?

- 0
- exactly 1
- unlimited
- unknown

<p>10.</p>  <p>If \overline{GH} bisects \overline{EF}, which statement is <i>not necessarily</i> true?</p> <p>a. O is the midpoint of \overline{GH} b. $\overline{EO} \cong \overline{OF}$ c. $E, F, G, H,$ and O are coplanar d. $GO + OH = GH$</p>	<p>11. On a number line, point R has coordinate -5 and point S has coordinate 3. Point X lies on \overline{SR} and $SX = 5$. Find the coordinate of X.</p>	<p>12. Which of the following is <i>not always</i> true when lines j and k intersect?</p> <p>a. Exactly one plane contains line j. b. The lines intersect in exactly one point. c. All points on j and k are coplanar points. d. Given any point P on j and any point Q on k, P and Q are collinear points.</p>
<p>13. Simplify $\frac{x^2y}{3x^7}$</p>	<p>14. Solve for x $\frac{2}{3}(x+3) = x-7$</p>	<p>15. Factor $x^2 - 7x + 10$</p>
<p>16. Simplify $\sqrt{20}$</p>	<p>17. Graph $y = \frac{2}{5}x - 2$</p> 