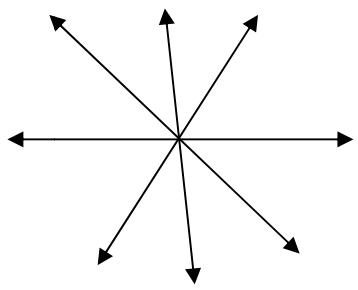
1(i) Only one line can pass through a single point. State True/ False. Justify.

False, since infinitely many lines can pass through a point



1(ii) There are an infinite number of lines which pass through two distinct points. State True/ False. Justify.

False, One and only line can pass through two distinct points.

1(iii) A terminated line can be produced indefinitely on both the sides. State True/ False. Justify

True. A terminated line or line segment can be produced both sides to get a line.

1(iv) If two circles are equal, then their radii are equal. State True/ False. Justify

True. If you superimpose the region bounded by one circle on the other, then they coincide. So, their centres and boundaries coincide. Therefore, their radii will coincide.

1(v). If $\overline{AB} = \overline{PQ}$ and $\overline{PQ} = \overline{XY}$, then $\overline{AB} = \overline{XY}$. State True/ False. Justify

True. Things equal to same thing are equal to each other.