

**Point Y lies on \overline{XZ} with endpoints X(-6, 8) and Z(18, -8).
Find the coordinates of Y that make each description true.**

1. Y is $\frac{2}{3}$ of the distance from X to Z
2. the ratio of XY to YZ is 1:2
3. Y is $\frac{1}{4}$ of the distance from Z to X
4. the ratio of XY to YZ is 3:5