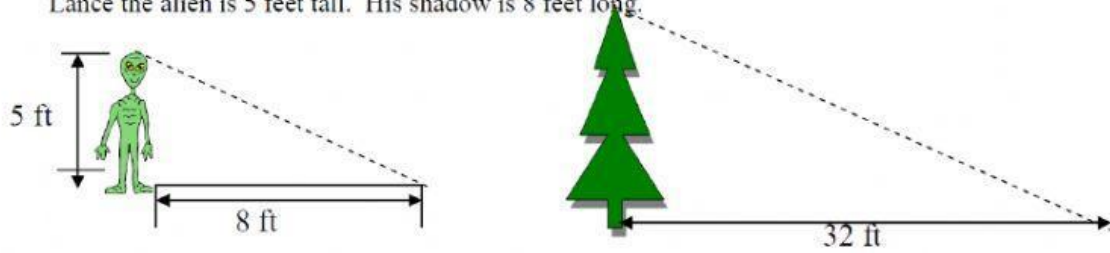


1. Lance the alien is 5 feet tall. His shadow is 8 feet long.

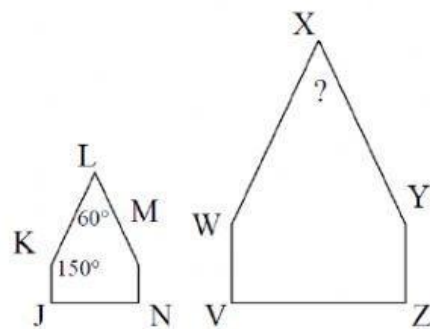


At the same time of day, a tree's shadow is 32 feet long. What is the height of the tree?

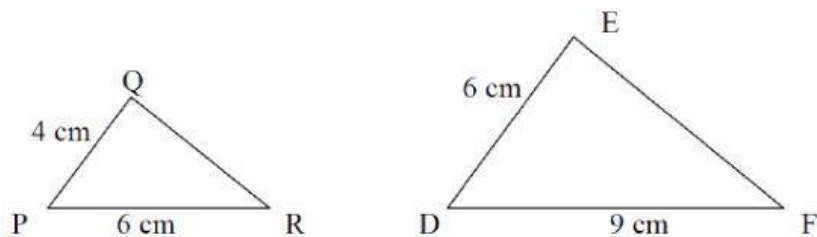
2. Pentagon JKLMN is similar to pentagon VWXYZ.

What is the measurement of angle X?

- a) 30° b) 60° c) 150° d) 120°



3. Triangle PQR is similar to triangle DEF as shown.



Which describes the relationship between the corresponding sides of the two triangles?

- a) $\frac{PQ}{DE} = \frac{4}{6}$ b) $\frac{PQ}{DE} = \frac{6}{4}$ c) $\frac{PQ}{EF} = \frac{4}{9}$ d) $\frac{PR}{DE} = \frac{6}{6}$