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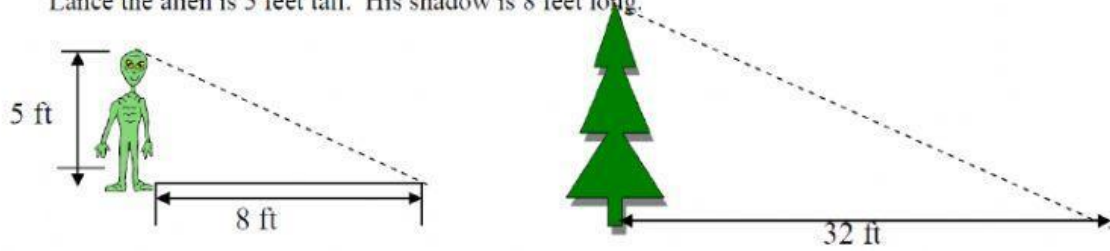
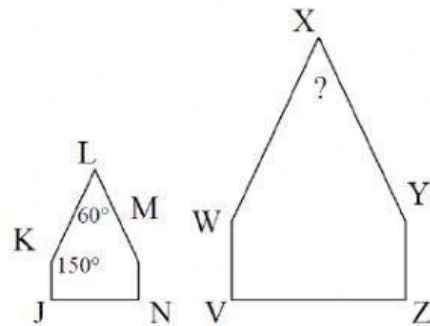

At the same time of day, a tree's shadow is 32 feet long. What is the height of the tree?
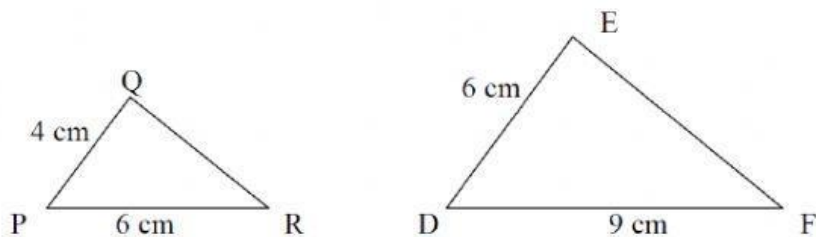
a) 20 feet   b) 24 feet   c) 29 feet   d) 51 feet

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