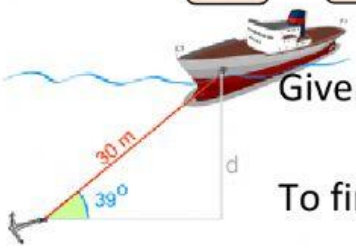
Solving for a side using trigonometric ratios

1. Find the depth (d) of the anchor

39^0 O A H



Given: ____ ____

To find: ____

S OH **C** AH **T** OA

sine cosine tangent

We use _____ ratio.

sin cos tan sin cos tan

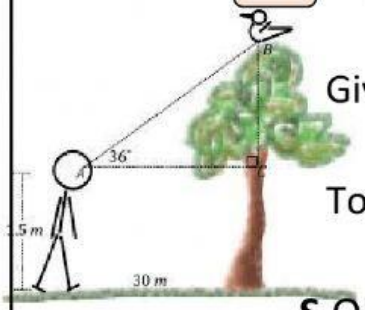
(39⁰) = ___/___

d 30 m

d= ___ * ___ ___ = 30 39^0 18

2. Find the height (h) of the tree crown

36^0 O A H



Given: ____ ____

To find: ____

S OH **C** AH **T** OA

sine cosine tangent

We use _____ ratio.

sin cos tan sin cos tan

(36⁰) = ___/___

h 30 m

h= ___ * ___ ___ = 30 36^0 21