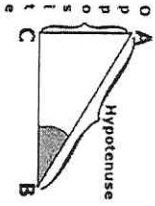
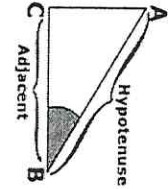


Part I
Model Problems

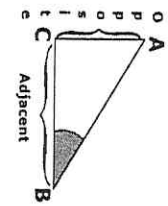
$$\sin(B) = \frac{\text{opposite}}{\text{hypotenuse}}$$



$$\cos(B) = \frac{\text{adjacent}}{\text{hypotenuse}}$$



$$\tan(B) = \frac{\text{opposite}}{\text{adjacent}}$$

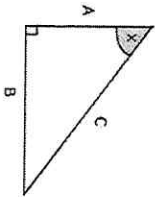


Model Problem 1) Identify the side adjacent, opposite to angle x and the hypotenuse

Adjacent to x : A

Opposite X : B

Hypotenuse : C



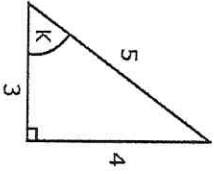
Model Problem 2) What is $\sin(k)$, $\cos(k)$ and $\tan(k)$?

Use SOHCAHTOA

$$\sin(k) = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{4}{5} = .8$$

$$\cos(k) = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{3}{5} = .6$$

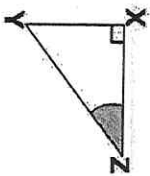
$$\tan(k) = \frac{\text{opposite}}{\text{adjacent}} = \frac{4}{3} = 1.33$$



II. Identifying Opposite, Adjacent and Hypotenuse

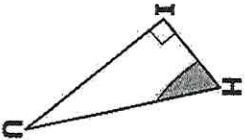
Identify

- 1) the hypotenuse
- 2) the side opposite of $\angle Z$: _____
- 3) the side adjacent to $\angle Z$: _____



Identify

- 4) the hypotenuse
- 5) the side opposite of $\angle H$: _____
- 6) the side adjacent to $\angle H$: _____



Identify

- 7) the hypotenuse
- 8) the side opposite of $\angle Y$: _____
- 9) the side adjacent to $\angle Y$: _____

