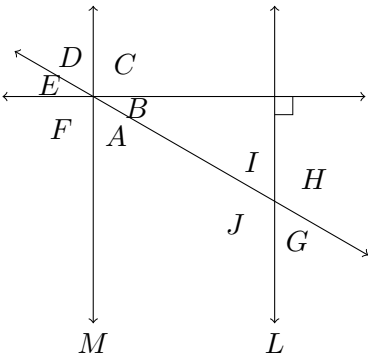


Assignment 3

Show all your work

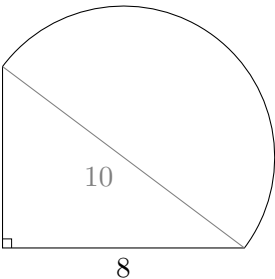
Name: _____
Number: _____
Signature: _____
Score: ____/10

Problem 1: Lines L and M are parallel, cut by two transversals, one of which is perpendicular to L and M . Knowing that $\angle B$ is 25° , find $\angle E$, $\angle I$, and $\angle H$.



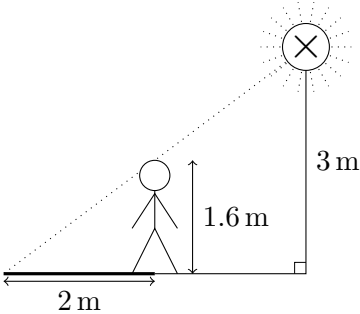
Score: ____/3

Problem 2: Find the combined area of a right triangle with a leg of 8 units and a semicircle drawn on its hypotenuse of 10 units. If necessary, round to nearest thousandths.



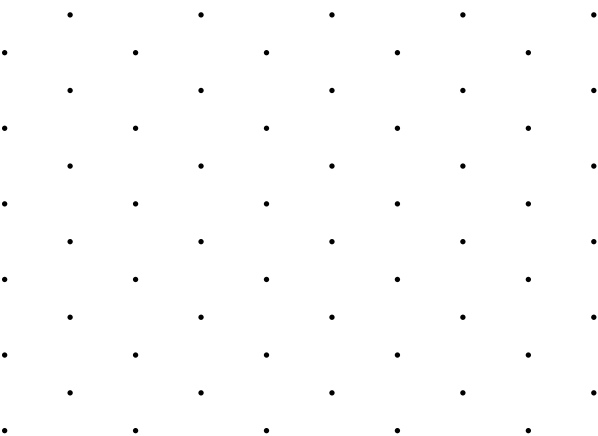
Score: ____/3

Problem 3: Shown is a 1.6 m tall pedestrian standing near a lamp post of 3 m high. If the pedestrian's shadow is 2 m long, how far away is the pedestrian standing away from the base of the lamp post?



Score: ____/2

Problem 4: In the three dimensional guide below, draw a rectangular prism of surface area between 50 square units and 100 square units. Show your work to calculate your surface area, then find the volume of your rectangular prism.



Score: ____/2