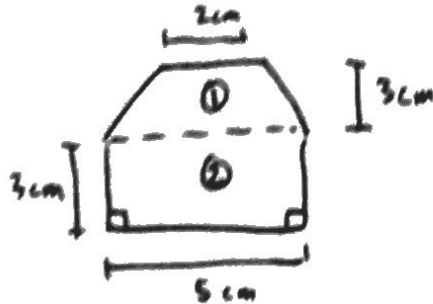


MA 202: Quiz 5
Tuesday 02/20/2018

Name Solution Key

Section _____

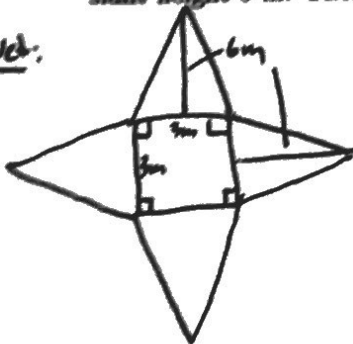
1. (3 points.) Find the area of the figure below.



$$\begin{aligned} \text{Area of } \textcircled{1}: & \frac{1}{2}(b_1 + b_2)h = \frac{1}{2}(5 + 2)(3) = 10.5 \text{ cm}^2 \\ \text{Area of } \textcircled{2}: & b \cdot h = 5 \cdot 3 = 15 \text{ cm}^2 \\ \text{Total Area: } & 15 \text{ cm}^2 + 10.5 \text{ cm}^2 = \boxed{25.5 \text{ cm}^2} \end{aligned}$$

2. (3 points.) Draw a net for a regular pyramid with a square base with side lengths 3 m and slant height 6 m. Then use this net to find the surface area of the pyramid.

Net:



$$A_{\text{base}} = 3 \cdot 3 = 9 \text{ m}^2$$

$$A_{\Delta} = \frac{1}{2} \cdot 3 \cdot 6 = 9 \text{ m}^2$$

$$\text{Total Area} = A_{\text{base}} + 4A_{\Delta} = 9 + 4 \cdot 9 = \boxed{45 \text{ m}^2}$$