

1/18/2022

M3

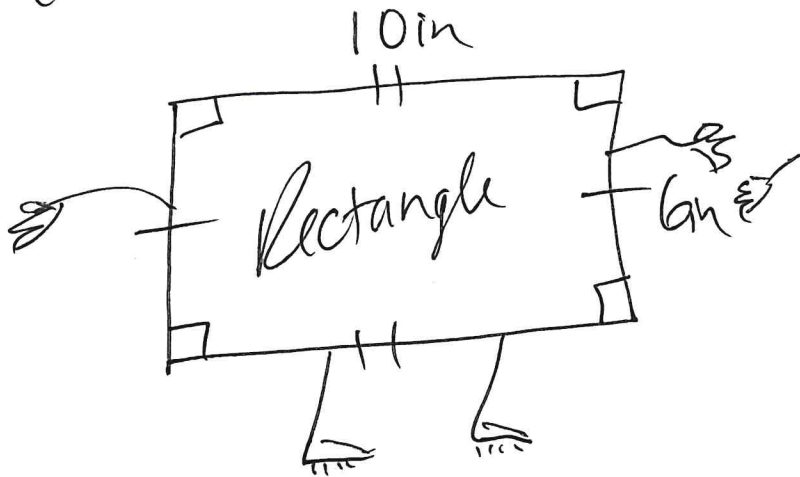
Lessons 1-3

Area :

amount of space  
inside a 2-D  
object:

Rectangle & square (2-D)

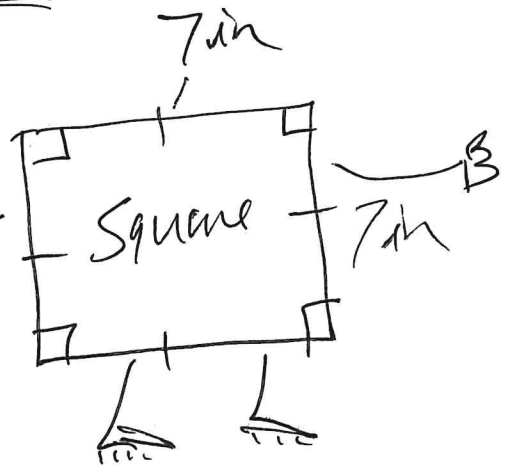
$A = l \cdot w$  or  $A = b \cdot h$



$A = b \cdot h$

$A = 10 \cdot 6$

$A = 60 \text{ in}^2$

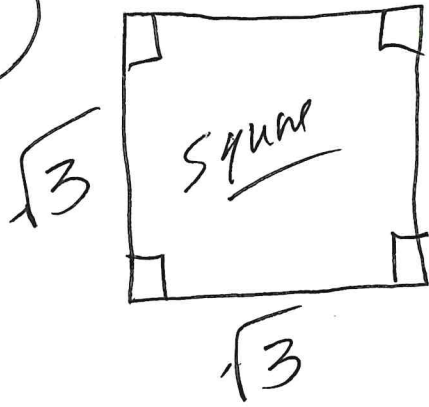


$A = b \cdot h$

$A = 7 \cdot 7$

$A = 49 \text{ in}^2$

ie3



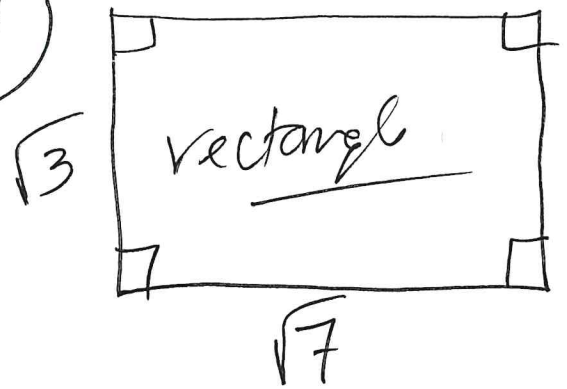
$$A = b \cdot h$$

$$A = \sqrt{3} \cdot \sqrt{3}$$

$$A = \sqrt{9}$$

$$A = 3 \text{ units}^2$$

ie4



$$\begin{array}{r} \sqrt{9} \\ + 3 \\ \hline \end{array}$$

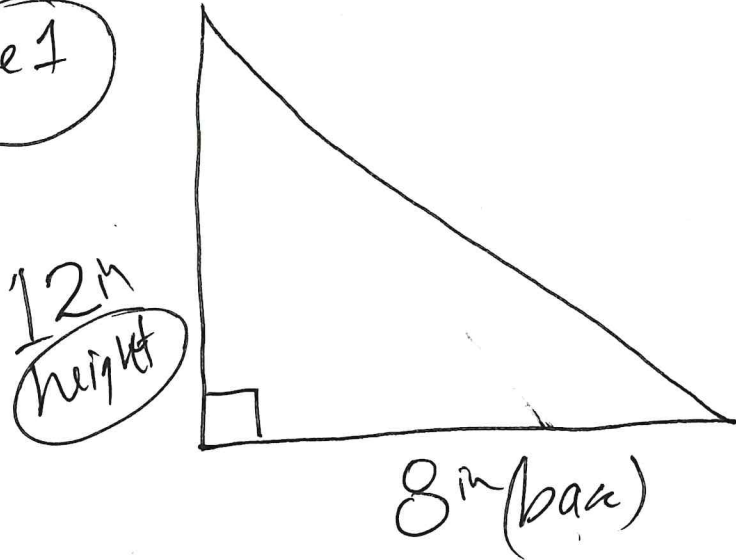
$$A = \sqrt{3} \cdot \sqrt{7}$$

$$A = \sqrt{21} \text{ units}^2$$

Triangles 2-D →

$$A = \frac{b \cdot h}{2}$$

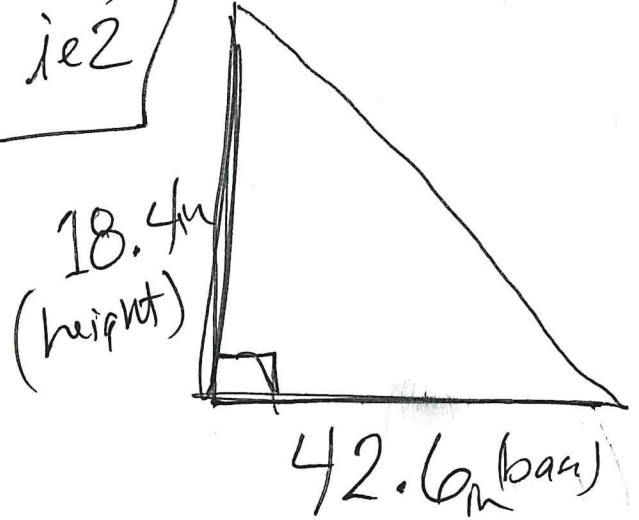
ie 1



$$A = \frac{12 \cdot 8}{2}$$

$$A^{\text{rea}} = 48 \text{ inches}^2$$

ie 2



$$A = \frac{42.6 \cdot 18.4}{2}$$

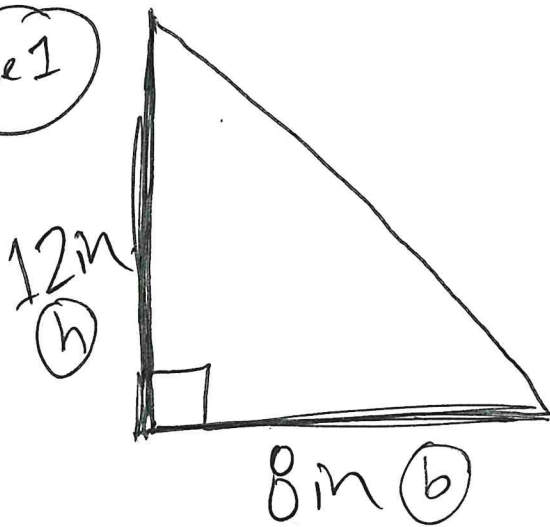
$$A = \frac{783.84}{2}$$

$$A^{\text{rea}} = 391.92 \text{ inches}^2$$

Triangles (2-D)

$$A = \frac{b \cdot h}{2}$$

ie 1



$$A = \frac{b \cdot h}{2}$$

$$A = \frac{12 \cdot 8}{2}$$

$$A = 48 \text{ in}^2$$

h

18.4  
in



$$A = \frac{b \cdot h}{2}$$

$$A = \frac{42.6 \cdot 18.4}{2}$$

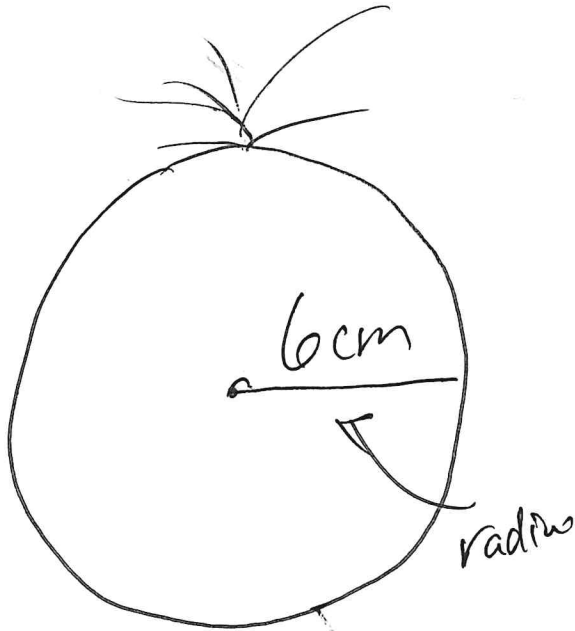
$$A = 391.92 \text{ in}^2$$

(2)

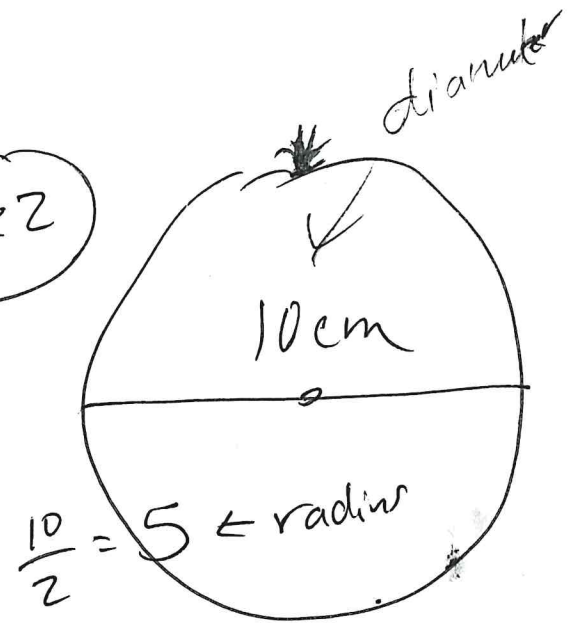
Circles

$$A = \pi r^2$$

ie 1



ie 2



$$A = \pi r^2$$

$$A = \pi (6)^2$$

$$A = 36\pi \text{ cm}^2$$

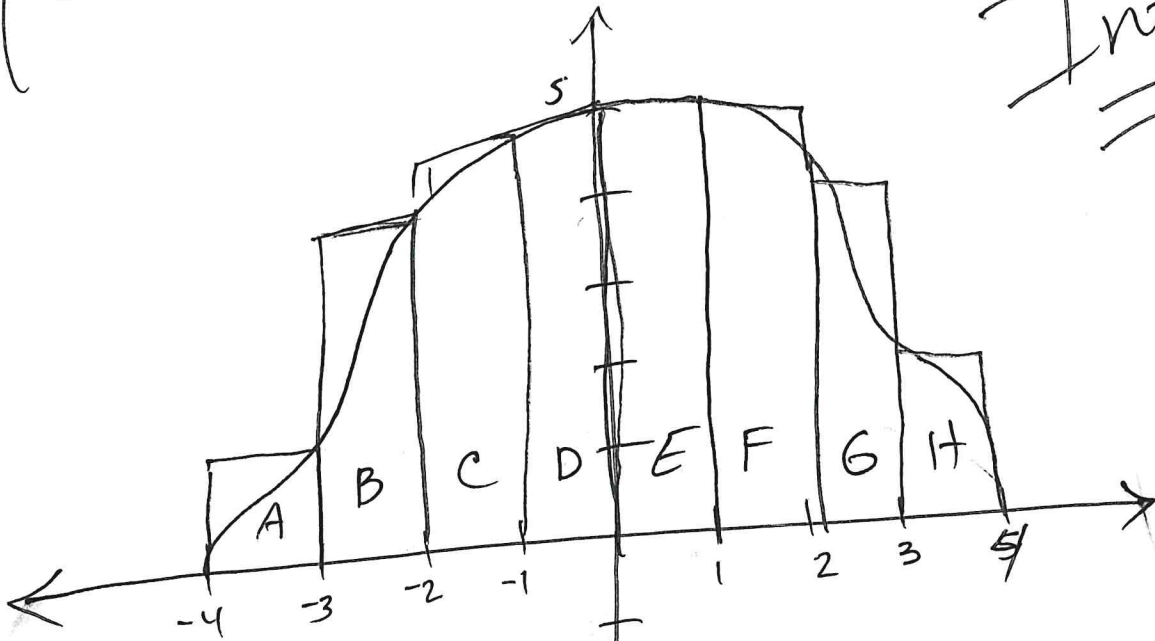
$$A = \pi r^2$$

$$A = \pi (5)^2$$

$$A = 25\pi \text{ cm}^2$$

# Area under a Curve

Integrals



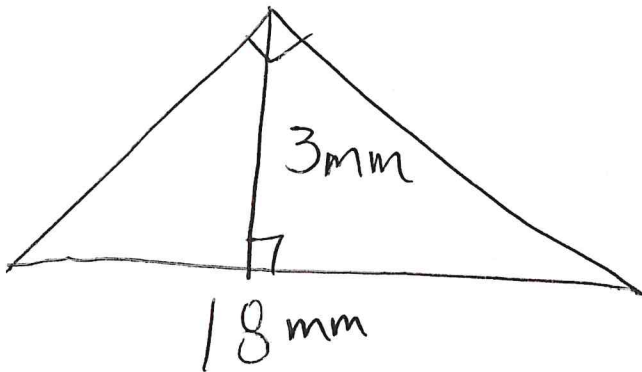
<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>
1.1	1.4	1.5	1.5	1.5	1.5	1.4	1.2
1	4	5	5	5	5	4	2

31 units<sup>2</sup>

Hwk - M3 Lessons 1-3

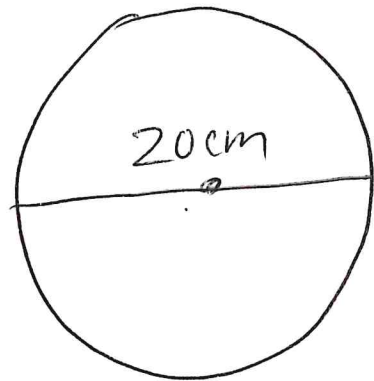
pg 11-12 # 1-4

1.) Find the area



$$A = \frac{b \cdot h}{2}$$

2.) Find the Area

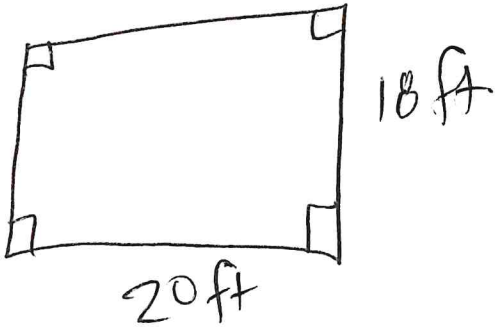


$$A = \pi r^2$$



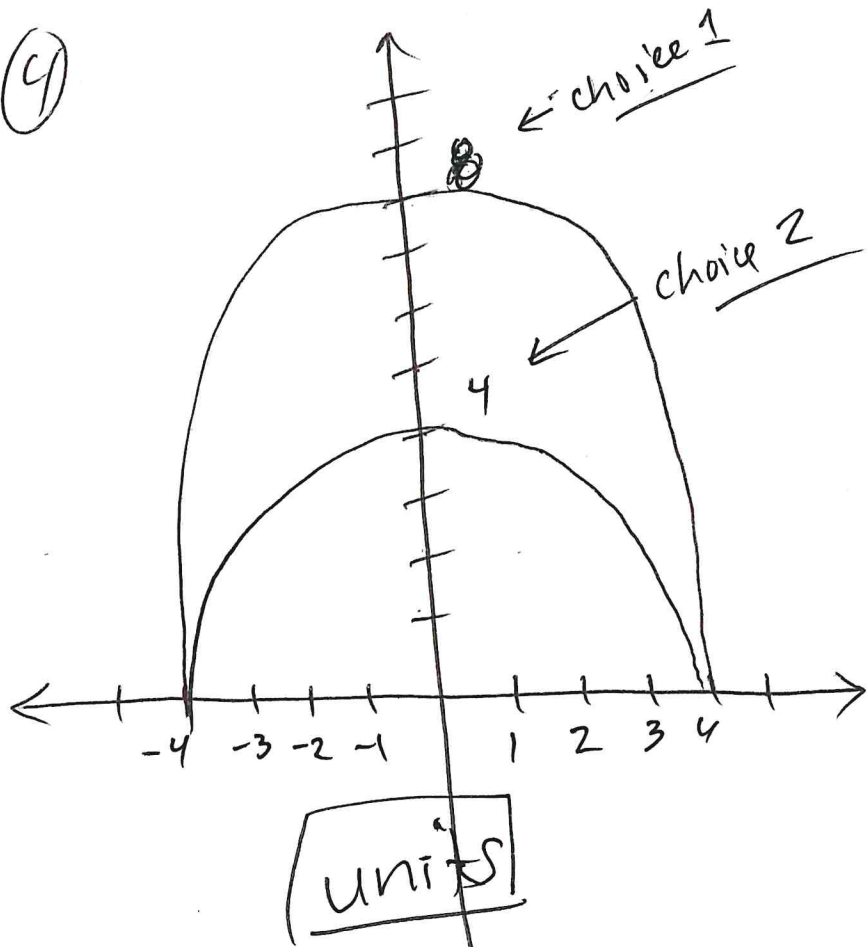
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Find the Area



$$A = b \cdot h$$

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Find the Area under the curve