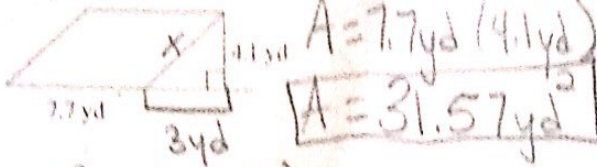


GI: Test Review - B Level

Find the area and perimeter of each shape. Round to two decimals, if necessary.

1)



$$x^2 = (3 \text{ yd})^2 + (4.1 \text{ yd})^2$$

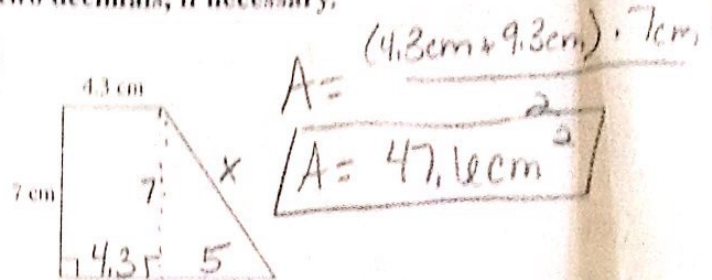
$$x^2 = 25.81 \text{ yd}^2$$

$$x \approx 5.08 \text{ yd}$$

$$P = 5.08 \text{ yd} + 7.7 \text{ yd} + 5.08 \text{ yd} + 7.7 \text{ yd}$$

$$P = 25.56 \text{ yd}$$

2)



$$x^2 = (7 \text{ cm})^2 + (5 \text{ cm})^2$$

$$x^2 = 74 \text{ cm}^2$$

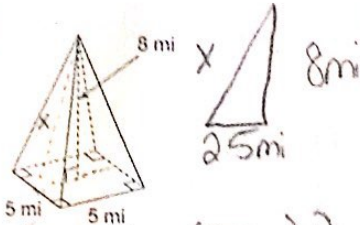
$$x \approx 8.60 \text{ cm}$$

$$P = 7 \text{ cm} + 4.3 \text{ cm} + 8.60 \text{ cm} + 9.3 \text{ cm}$$

$$P = 29.2 \text{ cm}$$

Find the surface area of the solid. Round to two decimals, if necessary.

3)



$$x^2 = (8 \text{ mi})^2 + (2.5 \text{ mi})^2$$

$$x^2 = 70.25 \text{ mi}^2$$

$$x \approx 8.38 \text{ mi}$$



$$A = \frac{8.38 \text{ mi} (5 \text{ mi})}{2} = 20.95 \text{ mi}^2$$

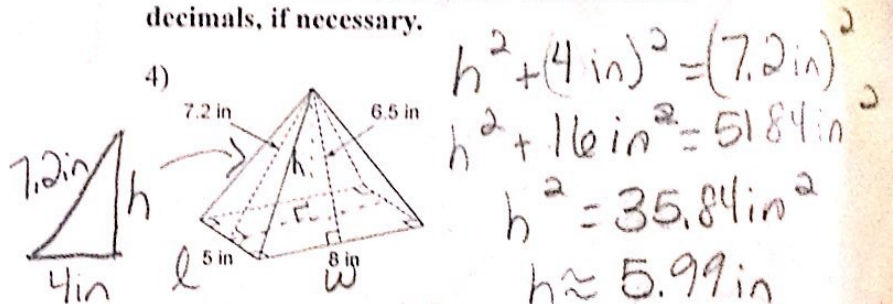
$$\frac{25 \text{ mi}^2}{4} = 6.25 \text{ mi}^2$$

$$S.A. = 25 \text{ mi}^2 + 83.80 \text{ mi}^2$$

$$S.A. = 108.8 \text{ mi}^2$$

Find the volume of the solid. Round to two decimals, if necessary.

4)



$$h^2 + (4 \text{ in})^2 = (7.2 \text{ in})^2$$

$$h^2 + 16 \text{ in}^2 = 51.84 \text{ in}^2$$

$$h^2 = 35.84 \text{ in}^2$$

$$h \approx 5.99 \text{ in}$$

$$V = \frac{lw \cdot h}{3}$$

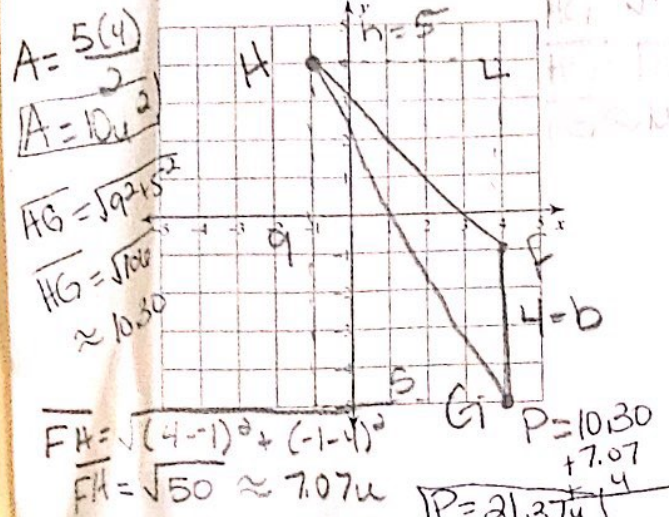
$$V = \frac{5 \text{ in} \cdot 8 \text{ in} \cdot 5.99 \text{ in}}{3}$$

$$V = 79.87 \text{ in}^3$$

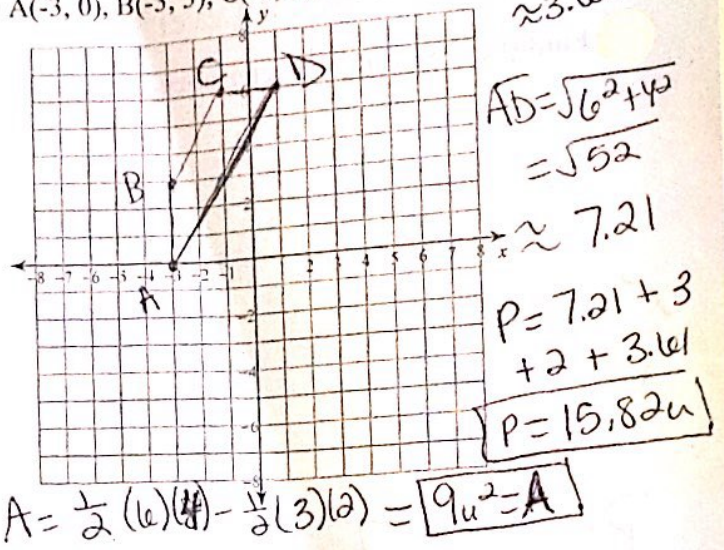
(You get 80 in³ for V if you find h using h = 6.5)

Plot each point then connect to make a shape. Find the area and perimeter of the shape.

5) $H(-1, 4)$ $G(4, -5)$ $F(4, -1)$

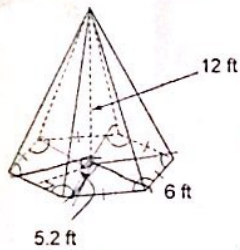


6) $A(-3, 0)$, $B(-3, 3)$, $C(-1, 6)$, $D(1, 6)$



Find the surface area and volume of each figure. Round to two decimals, if necessary.

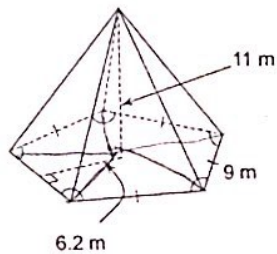
7)



$A_T = \frac{1}{2}(5.2)(6)$
 $A_T = 15.6 \text{ ft}^2$

$B = 6(A_T)$
 $B = 6(15.6 \text{ ft}^2)$
 $B = 93.6 \text{ ft}^2$
 $V = \frac{1}{3}B \cdot h$
 $V = \frac{1}{3}(93.6 \text{ ft}^2)(12 \text{ ft})$
 $V = 374.4 \text{ ft}^3$

8)



$A = \frac{1}{2}(6.2)(9)$
 $A = 27.9 \text{ m}^2$
 $B = 5(27.9 \text{ m}^2)$
 $B = 139.5 \text{ m}^2$

$V = \frac{1}{3} \cdot B \cdot h$
 $V = \frac{1}{3}(139.5 \text{ m}^2)(11 \text{ m})$
 $V = 511.5 \text{ m}^3$

$x^2 = 6^2 + 5.2^2$
 $x^2 = 171.04$
 $x \approx 13.08 \text{ ft}$
 $A = \frac{1}{2}(6)(13.08)$
 $= 39.24 \text{ ft}^2$

$S.A. = 93.6 + 39.24(6)$
 $S.A. = 329.04 \text{ ft}^2$

$x^2 = 6.2^2 + 11^2$
 $x^2 = 159.44$
 $x \approx 12.63 \text{ m}$

$S.A. = 5 \left[\left(\frac{1}{2} \right) (12.63 \text{ m})(9 \text{ m}) \right] + 139.5 \text{ m}^2$
 $S.A. = 423.68 \text{ m}^2$