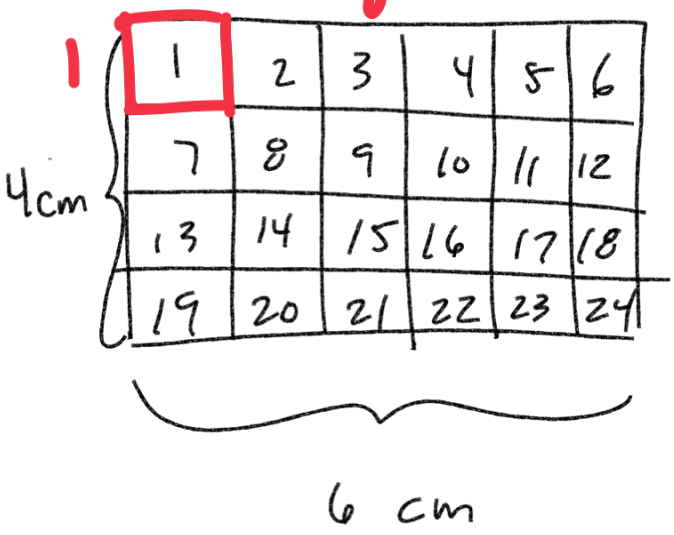
M-G Geometry Week 29/30 5/6

1 square centimeter

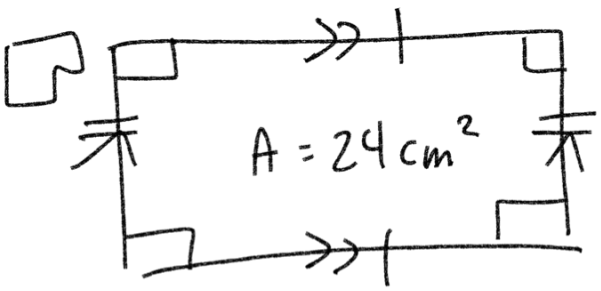


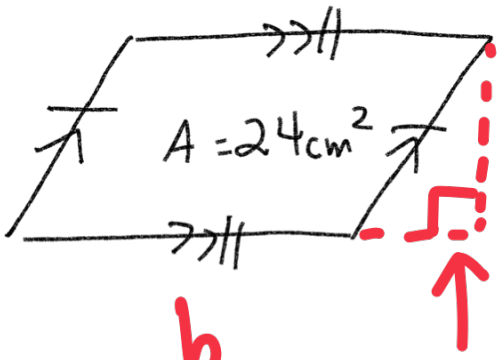
Area = base * height

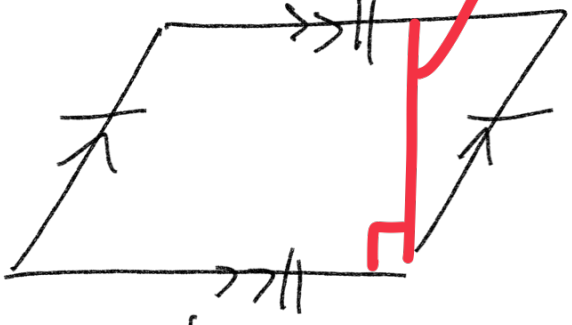
$A = bh$

Area: (6 cm)(4 cm)

$24\ cm^2$







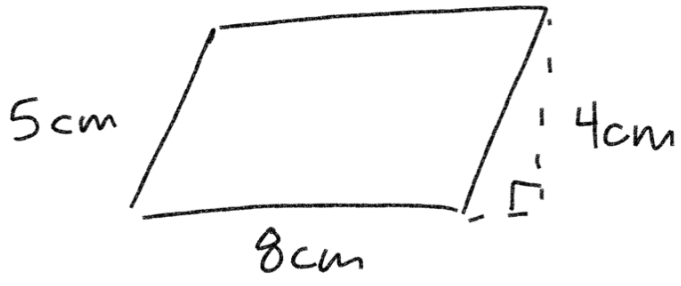
Area of Parallelogram

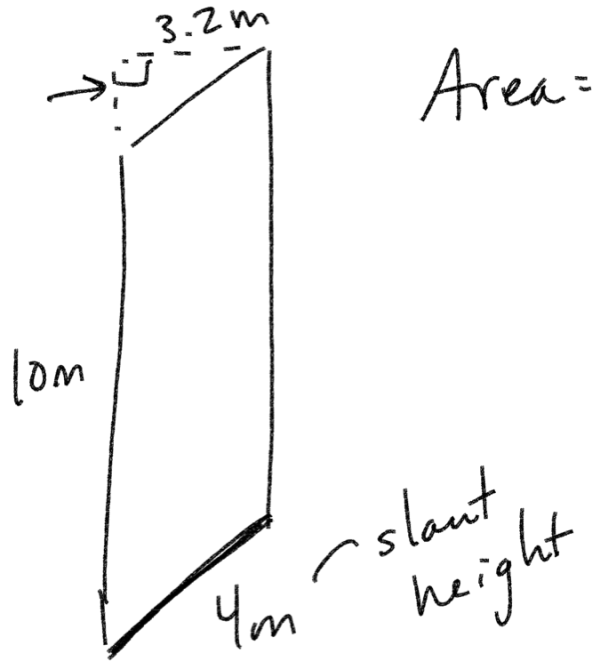
A = base * altitude

A = b * a

(8cm)(4cm)

$32\ cm^2$

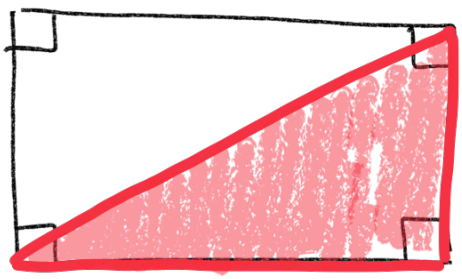




Area = Base * Altitude

↓

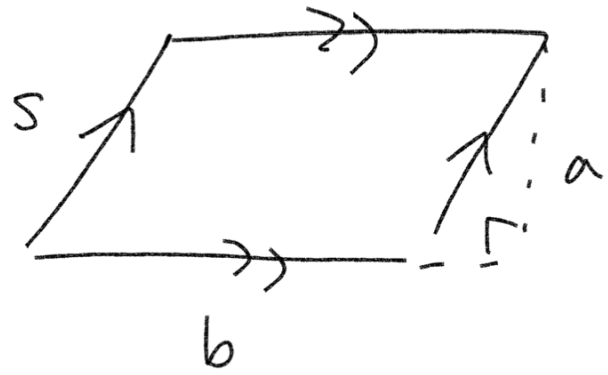
(10m) * (3.2m) = $32\ m^2$



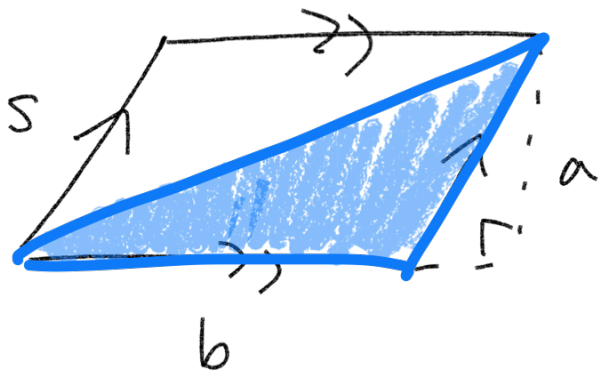
Triangle = $\frac{1}{2}$ Rectangle

Area of Rectangle = bh

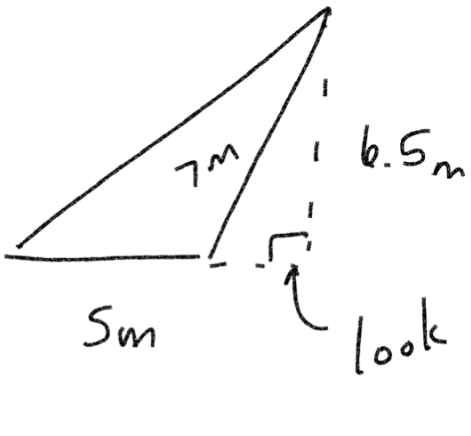
Area of Triangle = $\frac{1}{2}bh$



$A = ba$



$A = \frac{1}{2}ba$

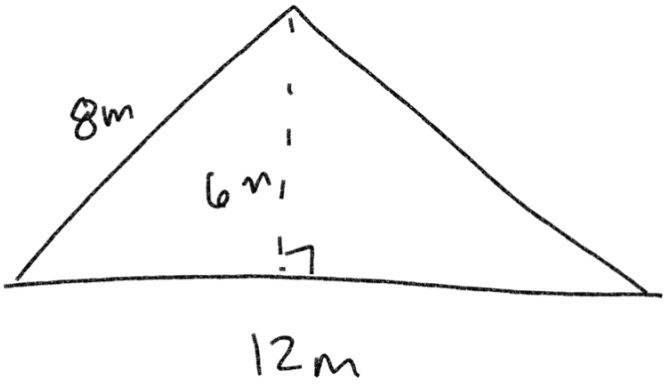


look for perpendicular

$Area = \frac{1}{2}ba$

$\frac{1}{2}(6.5m)(5m) = \boxed{16.25\ m^2}$

1.)

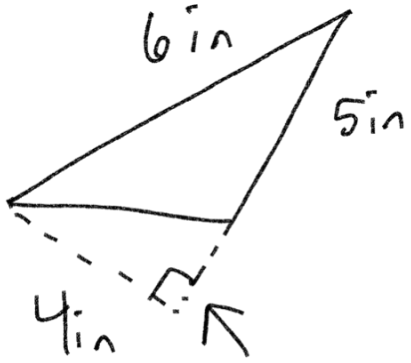


$A = \frac{1}{2}bh$

$\frac{1}{2}(12m)(6m)$

$\boxed{36\ m^2}$

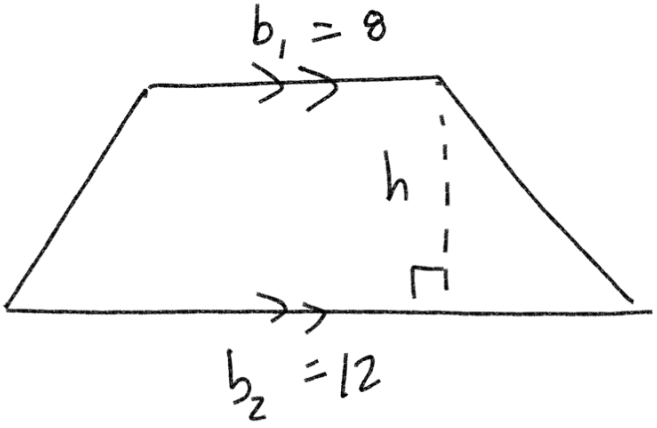
2.)



$A = \frac{1}{2}bh$

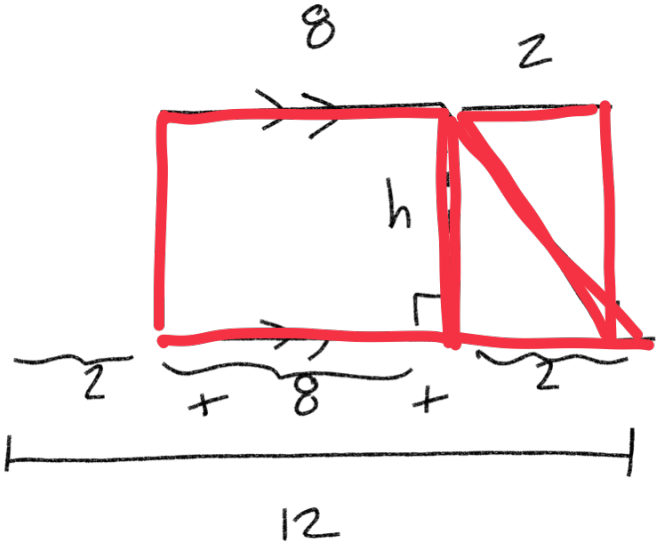
$\frac{1}{2}(4in)(5in)$

$\boxed{10\ in^2}$



Area of Trapezoid

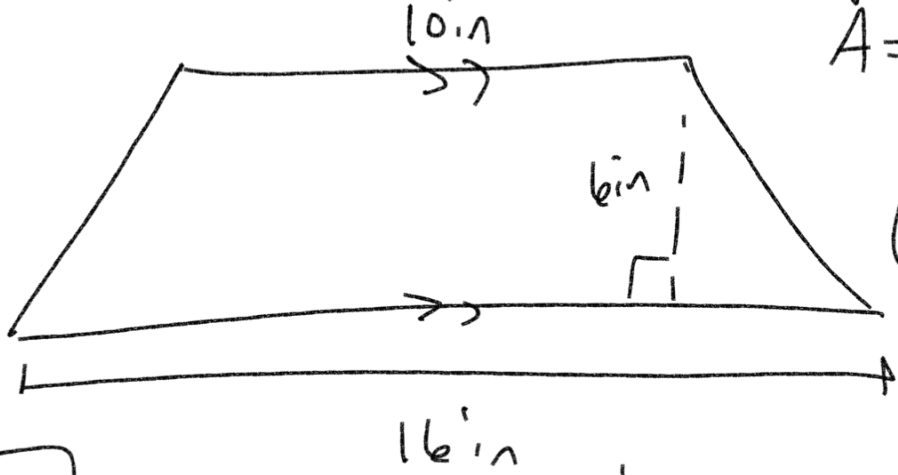
$$A = \left(\frac{b_1 + b_2}{2}\right)h$$



$$\frac{8+12}{2} = \frac{20}{2} = 10$$

squared

$$A = \left(\frac{b_1 + b_2}{2}\right)h$$



$$\left(\frac{10+16}{2}\right)(6in)$$

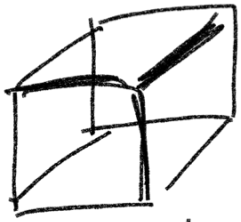
$$\left(\frac{26}{2}\right)(6)$$

$$(13)(6) = \boxed{78\,in^2}$$

Area $\rightarrow$ ^{2} $\rightarrow$ squared

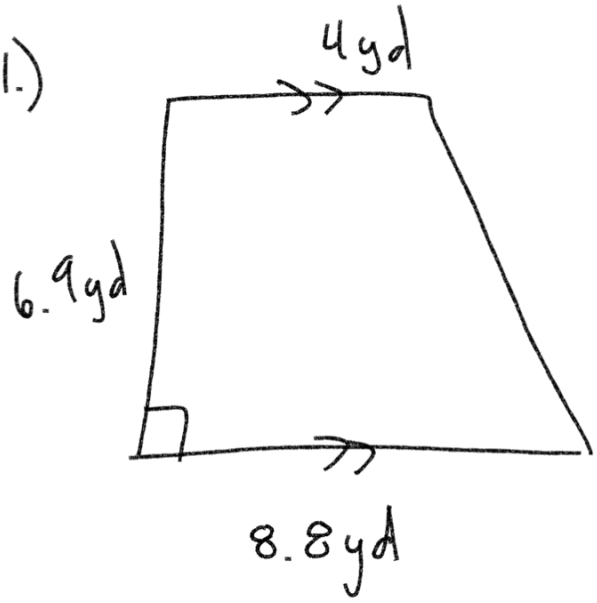
Volume $\rightarrow$ ^{3} $\rightarrow$ cubed

square



cube

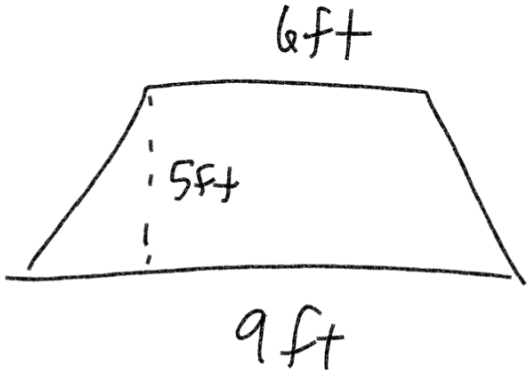
1.)



$A = \left(\frac{8.8yd + 4yd}{2}\right)(6.9yd)$

$44.16\ yd^2$

2.)

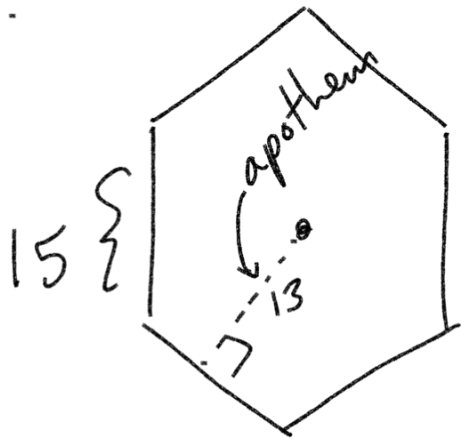


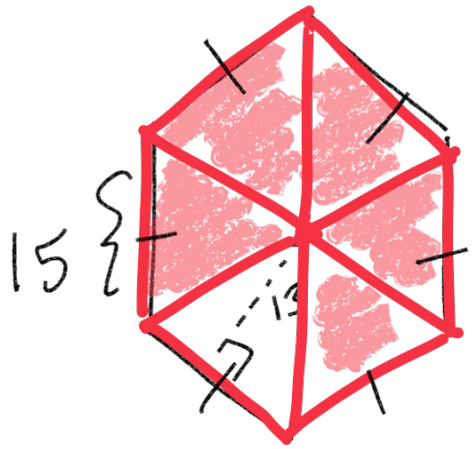
$A = \left(\frac{6ft + 9ft}{2}\right)5ft$

$37.5\ ft^2$

Regular Polygon

↳ All sides are equal





$6\left(\frac{1}{2}(15)(13)\right)$

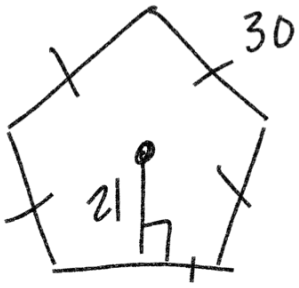
$585\ units^2$

Area of Regular Polygon

Hexagon

$\frac{1}{2}(perimeter)(apothem) = \frac{1}{2}(15 * 6) * 13$

1.)

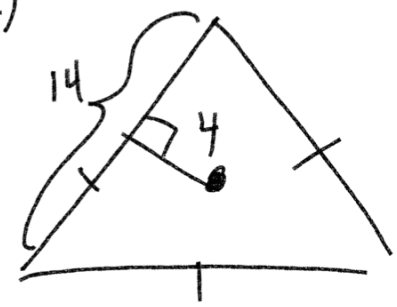


$A = \frac{1}{2}(\text{perimeter})(\text{apothem})$

$\frac{1}{2}(30 * 5)(21)$

1575 units^2

2.)



$A = \frac{1}{2}(\text{perimeter})(\text{apothem})$

$\frac{1}{2}(3 * 14)(4)$

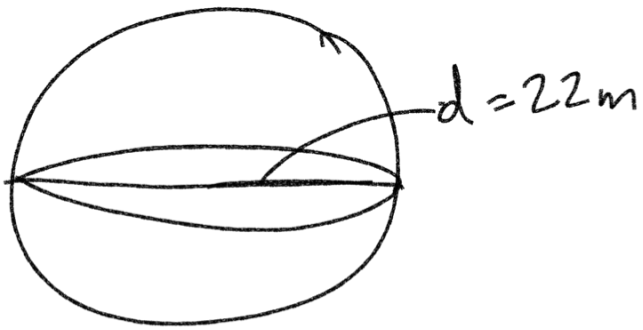
84 units^2

Volume of Sphere

$$V = \frac{4}{3}\pi r^3 \quad \text{or} \quad V = \frac{4}{3}\pi\left(\frac{d}{2}\right)^3$$

r = radius

d = diameter



$V = \frac{4}{3}\pi\left(\frac{22m}{2}\right)^3 =$ $5573 m^3$