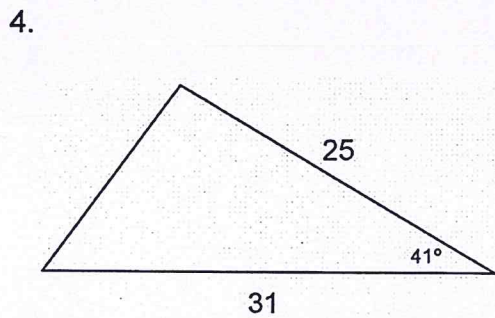
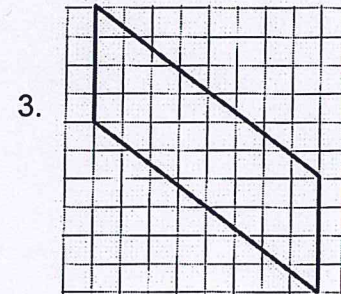
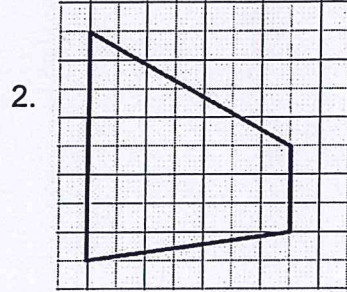
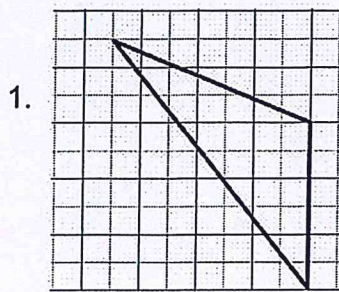
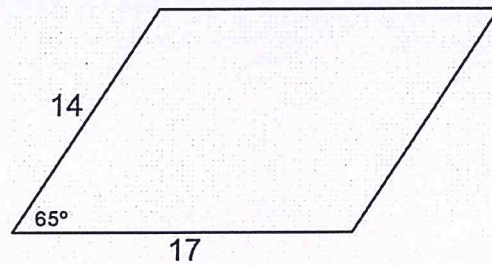


Practice #8 Geo Sec 10-1 & 10-2 Wednesday, March 25, 2020

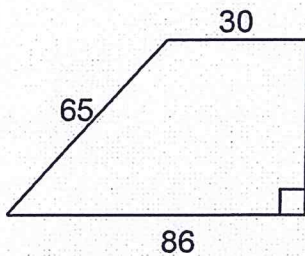
For these nine problems find the area of each triangle, parallelogram, or Trapezoid. Round to the nearest hundredth unless noted otherwise.



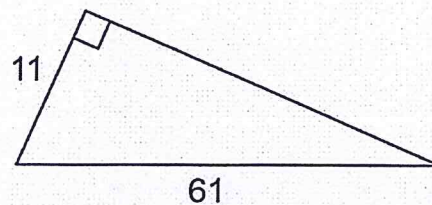
5. Parallelogram



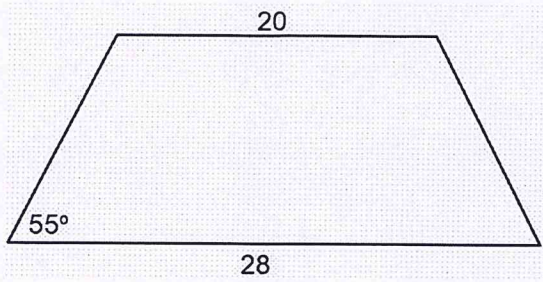
6. Trapezoid.



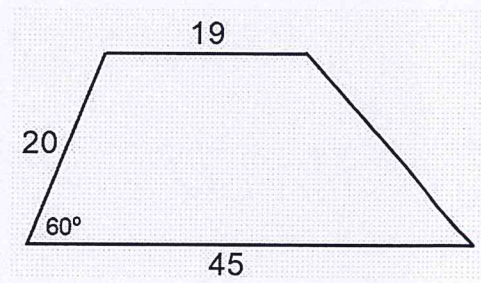
7.



8. Isosceles Trapezoid.



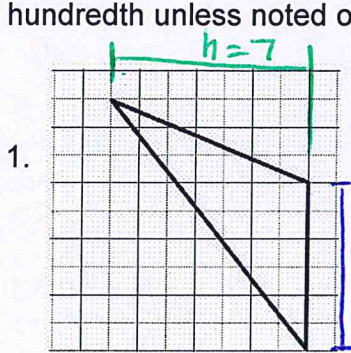
9. Find the EXACT area of this Trapezoid.



Practice #8 Geo Sec 10-1 & 10-2 Wednesday, March 25, 2020

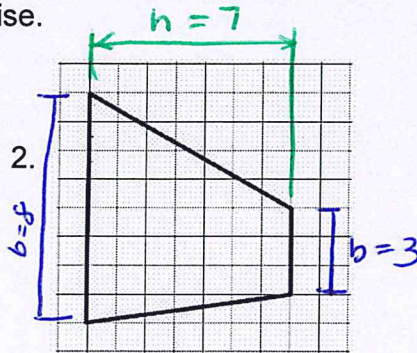
For these nine problems find the area of each triangle, parallelogram, or Trapezoid. Round to the nearest hundredth unless noted otherwise.

ANSWERS



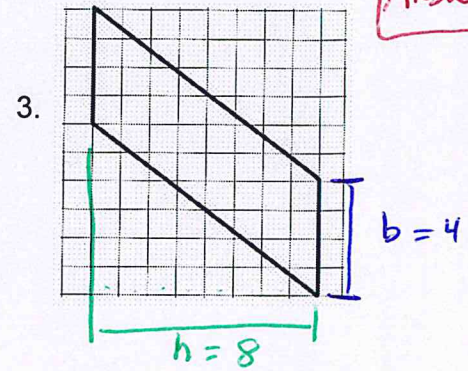
$$A = \frac{1}{2}(6)(7)$$

$$A = 21$$



$$A = \frac{1}{2}(3+8)(7)$$

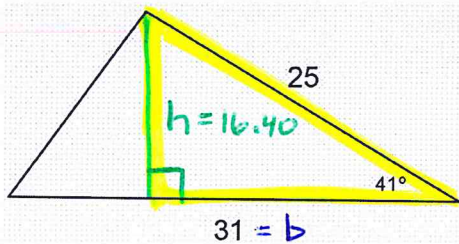
$$A = 38.5$$



$$A = (4)(8)$$

$$A = 32$$

4.



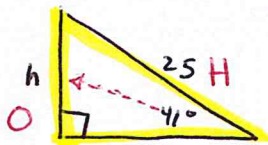
SOHCAHTOA

$$\sin 41 = \frac{h}{25}$$

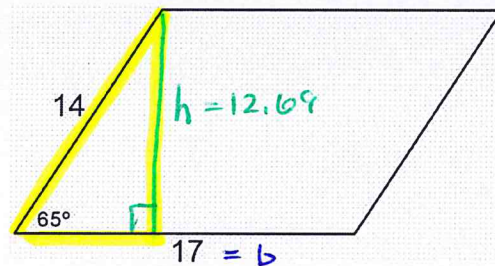
$$h = 16.40$$

$$A = \frac{1}{2}(31)(16.4)$$

$$= 254.2$$

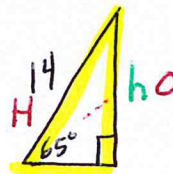


5. Parallelogram



$$A = (17)(12.69)$$

$$A = 215.73$$

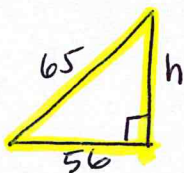
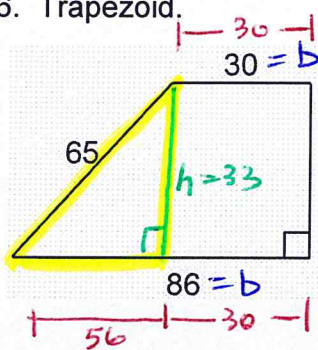


SOHCAHTOA

$$\sin 65 = \frac{h}{14}$$

$$h = 12.69$$

6. Trapezoid.



$$h^2 + 56^2 = 65^2$$

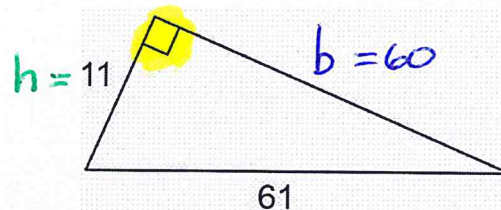
$$h^2 = 65^2 - 56^2$$

$$h = \sqrt{65^2 - 56^2}$$

$$h = 33$$

$$A = \frac{1}{2}(30+86)(33) = 1914$$

7.



$$A = \frac{1}{2}(60)(11)$$

$$A = 330$$

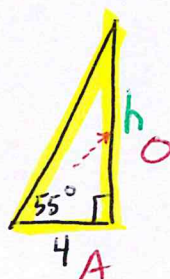
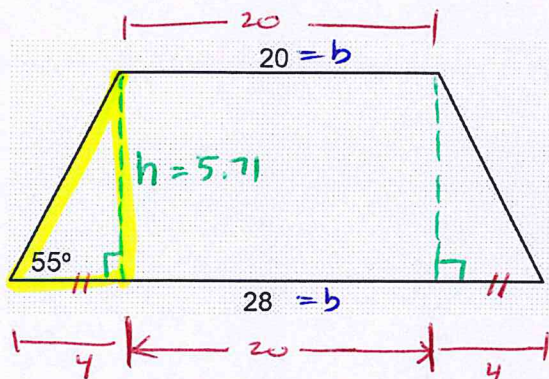
$$b^2 + 11^2 = 61^2$$

$$b^2 = 61^2 - 11^2$$

$$b = \sqrt{61^2 - 11^2}$$

$$b = 60$$

8. Isosceles Trapezoid.



SOH CAH TOA

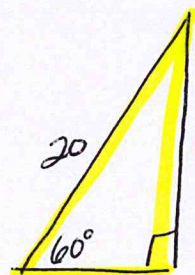
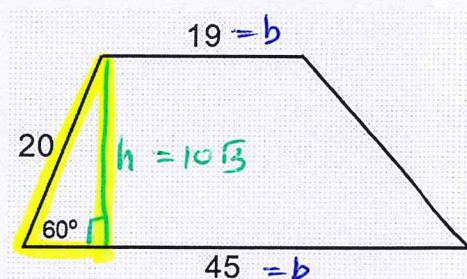
$$\tan 55^\circ = \frac{h}{4}$$

$$h = \underline{5.71}$$

$$A = \frac{1}{2} (20 + 28) (5.71)$$

$$A = 137.04$$

9. Find the EXACT area of this Trapezoid.



$$h = LL = SL \cdot \sqrt{3} = 10\sqrt{3}$$

$$\begin{aligned} SL &= \frac{1}{2} \text{hypotenuse} \\ &= \frac{1}{2}(20) \\ &= 10 \end{aligned}$$

$$A = \frac{1}{2} (19 + 45) (10\sqrt{3})$$

$$32 (10\sqrt{3})$$

$$A = 320\sqrt{3}$$