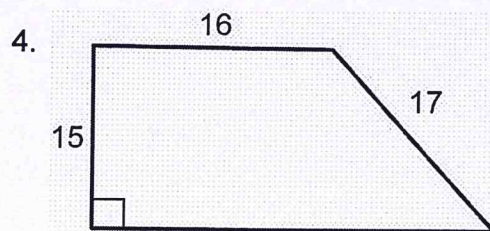
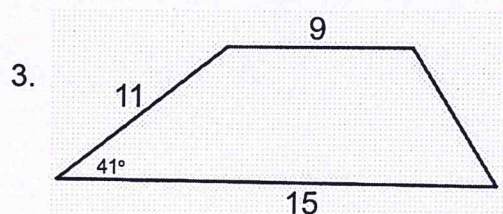
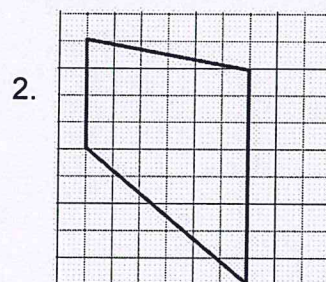
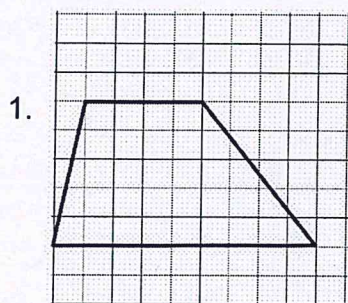
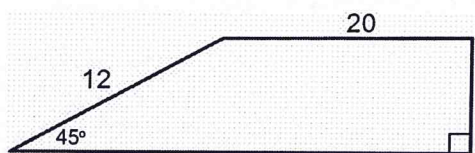


Find each area. Round to the nearest hundredth as needed.

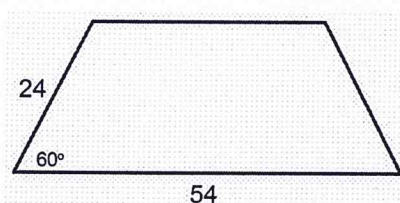


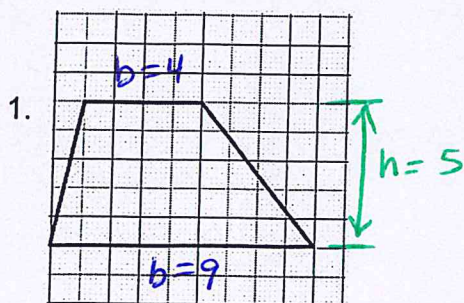
Find the EXACT area of each Trapezoid.

5.

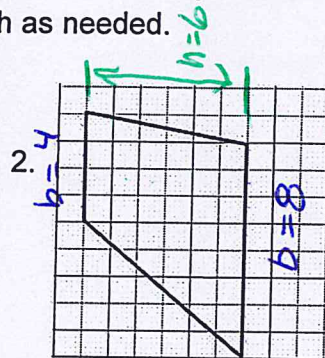


6. Isosceles Trapezoid.



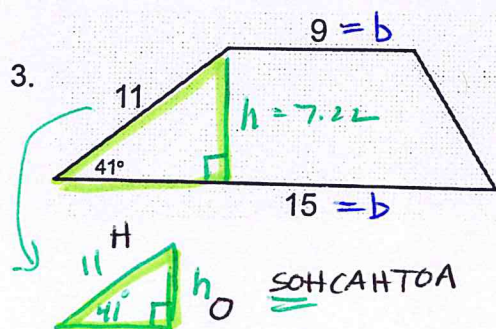


$$A = \frac{1}{2}(9+4)(5) = 32.5$$



$$A = \frac{1}{2}(8+4)(6)$$

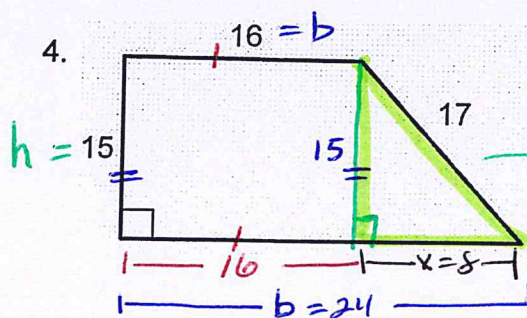
$$A = 36$$



$$11 \cdot \sin 41^\circ = \frac{h}{11} \cdot 11$$

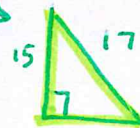
$$h = 7.22$$

$$A = \frac{1}{2}(15+9)(7.22) = 86.64$$



$$A = \frac{1}{2}(24+16)(15)$$

$$A = 300$$



$$x^2 + 15^2 = 17^2$$

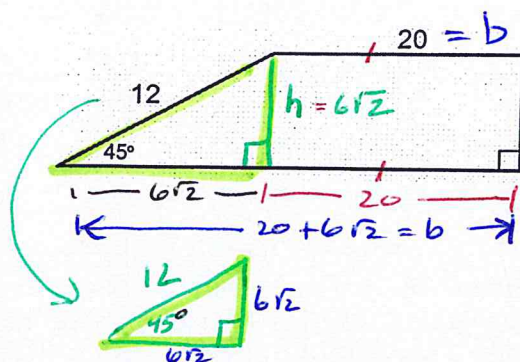
$$x^2 = 17^2 - 15^2$$

$$x = \sqrt{17^2 - 15^2}$$

$$x = 8$$

Find the EXACT area of each Trapezoid.

5.



45-45-90 Δ

$$\text{leg} = \frac{\text{hyp}}{\sqrt{2}} = \frac{12}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

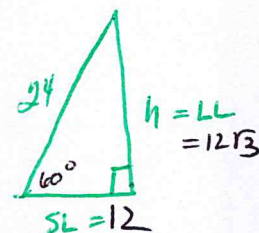
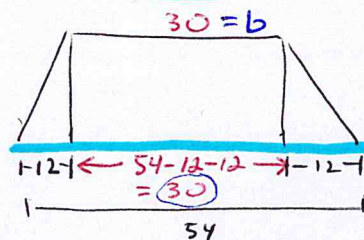
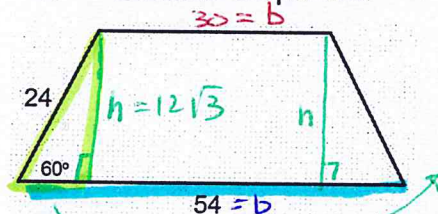
$$= \frac{12\sqrt{2}}{2} = 6\sqrt{2}$$

$$A = \frac{1}{2}(20+6\sqrt{2}+20)6\sqrt{2}$$

$$= \frac{1}{2}(40+6\sqrt{2})6\sqrt{2}$$

$$= (20+3\sqrt{2})6\sqrt{2} = 120\sqrt{2} + 18 \cdot 2 = 120\sqrt{2} + 36$$

6. Isosceles Trapezoid.



30-60-90 Δ

$$SL = \text{hyp} \div 2 = 24 \div 2 = 12$$

$$LL = SL \cdot \sqrt{3} = 12\sqrt{3}$$

$$A = \frac{1}{2}(54+30)12\sqrt{3} = (42)12\sqrt{3}$$

$$A = 504\sqrt{3}$$