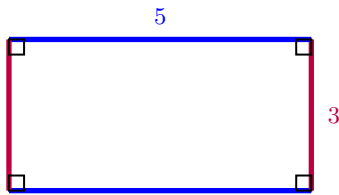
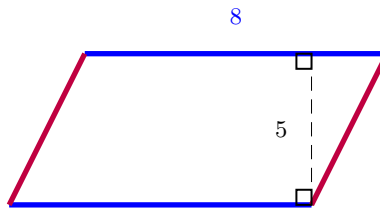


1. Find the area for the following shape. 4. Find the area for the following parallelogram.

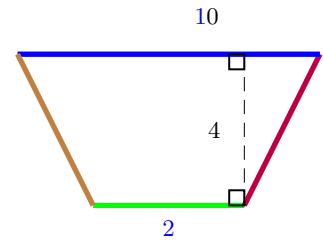


Solution: $A = bh = 5 \cdot 3 = 15$ square units



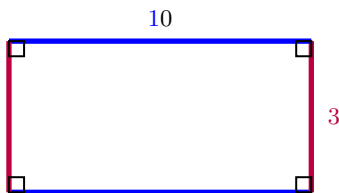
Solution: $A = bh = 8 \cdot 5 = 40$ square units

7. Find the area for the following trapezoid.

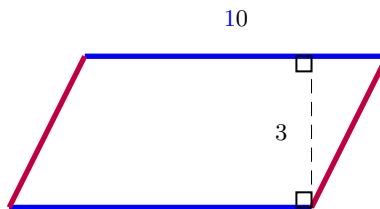


Solution: $A = (B + b)h/2 = \frac{(10+2)}{2} \cdot 4 = 24$ square units

2. Find the area for the following shape. 5. Find the area for the following parallelogram.

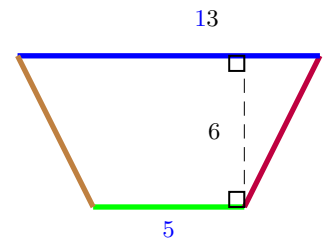


Solution: $A = bh = 10 \cdot 3 = 30$ square units



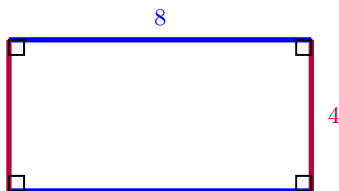
Solution: $A = bh = 10 \cdot 3 = 30$ square units

8. Find the area for the following trapezoid.

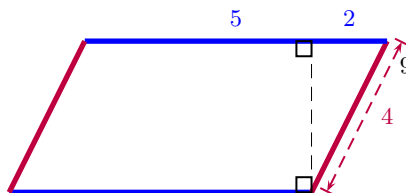


Solution: $A = (B + b)h/2 = \frac{(13+5)}{2} \cdot 6 = 54$ square units

3. Find the area for the following shape. 6. Find the area for the following parallelogram.

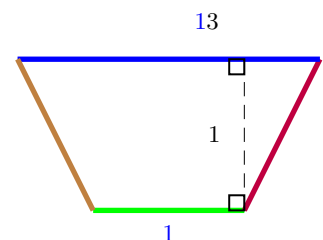


Solution: $A = bh = 8 \cdot 4 = 32$ square units

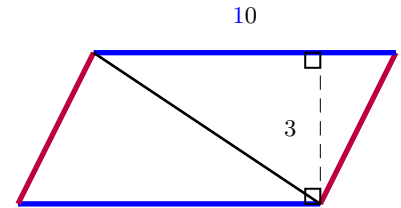
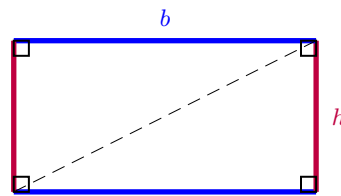


Solution: first find the height using pythagoras, $4^2 = h^2 + 2^2$, thus $h = \sqrt{12}$ then... $A = bh = 5 \cdot \sqrt{12}$ square units

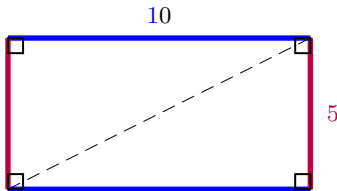
9. Find the area for the following trapezoid.



Solution: $A = (B + b)h/2 = \frac{(13+1)}{2} \cdot 1 = 7$ square units



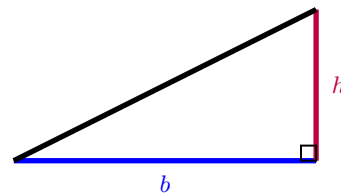
10. Find the area for the following Rectangle.



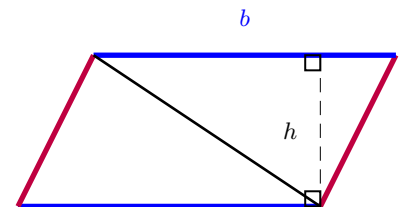
Now, use this area to calculate the area of each of the triangles inside the rectangle. use this to determine a formula for a triangle with the following shape

Now, use this area to calculate the area of each of the two large triangles inside the parallelogram.

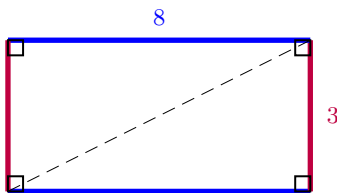
Now, use this area to calculate the area of each of the triangles inside the rectangle.



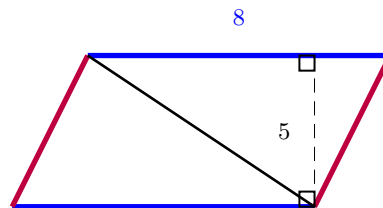
15. (FAMOUS) Find the area for the following parallelogram.



11. Find the area for the following Rectangle.



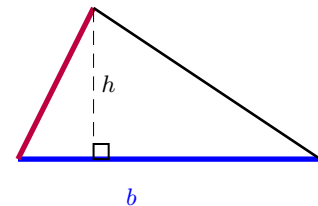
13. Find the area for the following parallelogram.



Now, use this area to calculate the area of each of the two large triangles inside the parallelogram. Then, use this to determine a formula for the area of a triangle with the following shape.

Now, use this area to calculate the area of each of the triangles inside the rectangle.

Now, use this area to calculate the area of each of the two large triangles inside the parallelogram.



Solution: see video lectures...

12. (FAMOUS) Find the area for the following Rectangle.

14. Find the area for the following parallelogram.