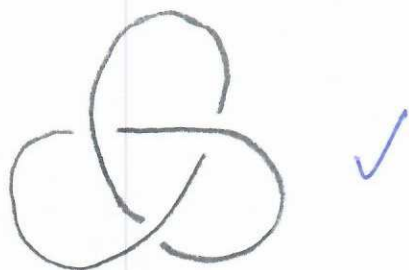
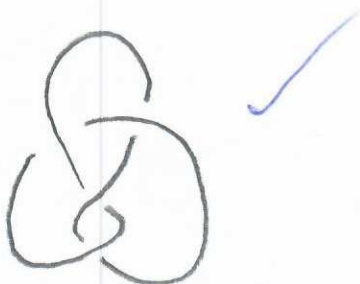


1. (3pts) Draw the following knots. (**Reminder:** if you do not clearly indicate the overs and unders, then it is **impossible** for us to determine what knot it is.)

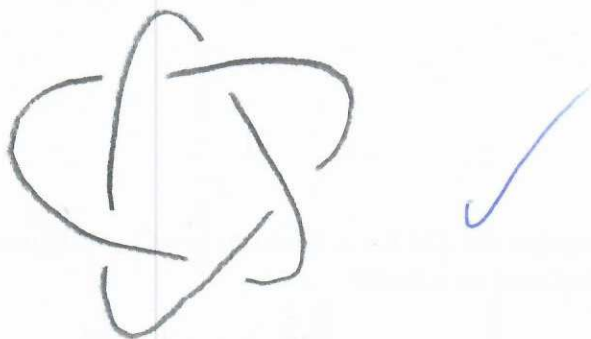
a. Trefoil knot



b. Figure-Eight knot



c. Cinquefoil knot



2. (2pts) Which of our knots and links (all those with five crossings or fewer) **cannot** be obtained by twisting a band and cutting it down the middle?

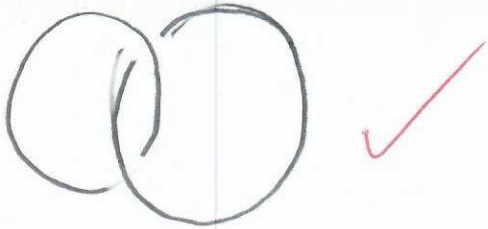
figure 8 knot and five twist knot

~ ✓  
good

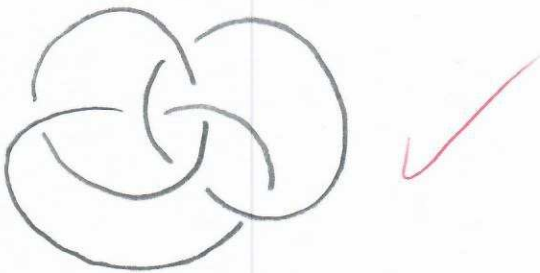
Borromean  
Rings, too...

3. (3pts) Draw the following links:

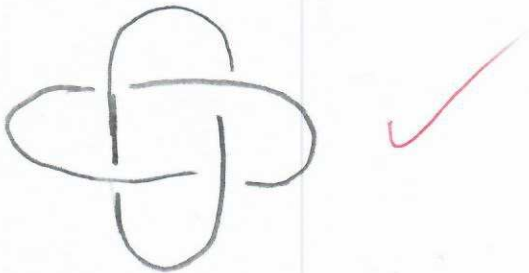
a. Hopf Link



b. Borromean Rings



c. Solomon's Knot



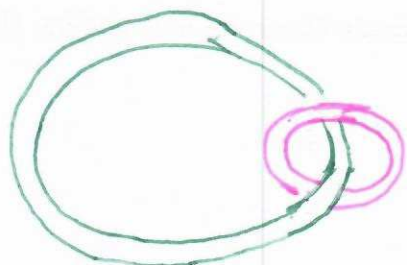
4. (2pts) When we twist a band and connect the ends (as we did for a Mobius band), and then cut it down the middle, what determines whether the result is a knot or a link?

The amount of times you twisted the band is what determines if it's a knot or a link. Odd number of times gets you a knot, but an even # of times gives you a link.

✓ Right!

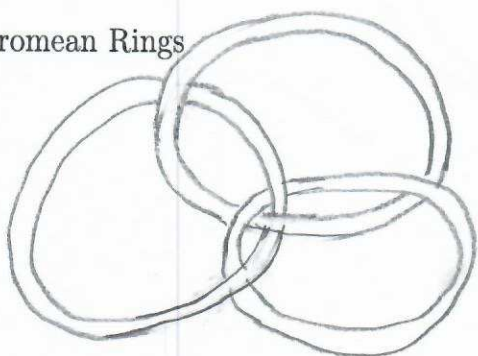
3. (3pts) Draw the following links:

a. Hopf Link



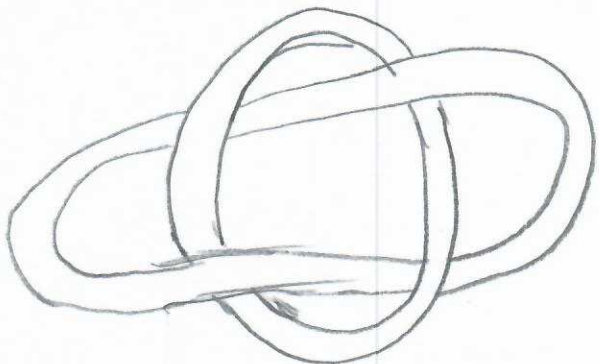
Good!  
😊

b. Borromean Rings



✓

c. Solomon's Knot



✓

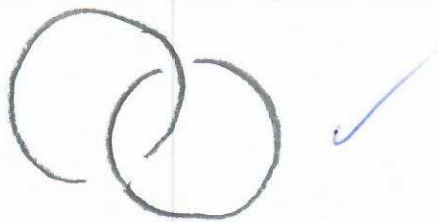
4. (2pts) When we twist a band and connect the ends (as we did for a Mobius band), and then cut it down the middle, what determines whether the result is a knot or a link?

Odd # of twists = knot  
even # of twists = link

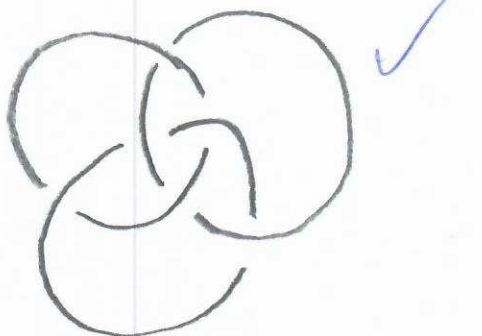
✓

3. (3pts) Draw the following links:

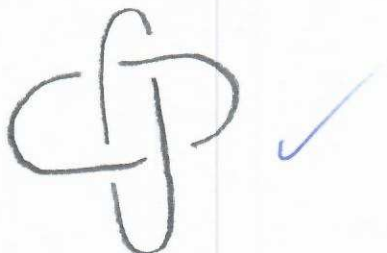
a. Hopf Link



b. Borromean Rings



c. Solomon's Knot



4. (2pts) When we twist a band and connect the ends (as we did for a Mobius band), and then cut it down the middle, what determines whether the result is a knot or a link?

Whether the amount of twists is odd or even

↓  
knot

↓  
link

