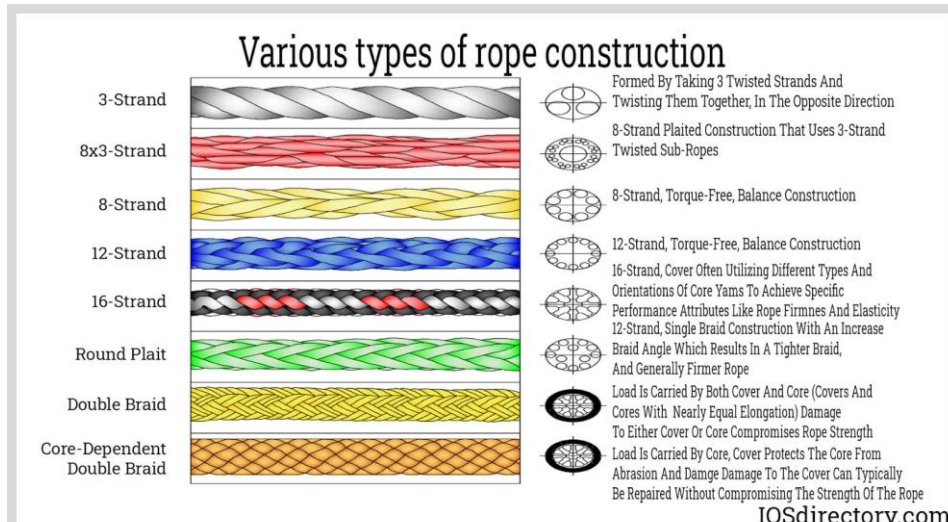
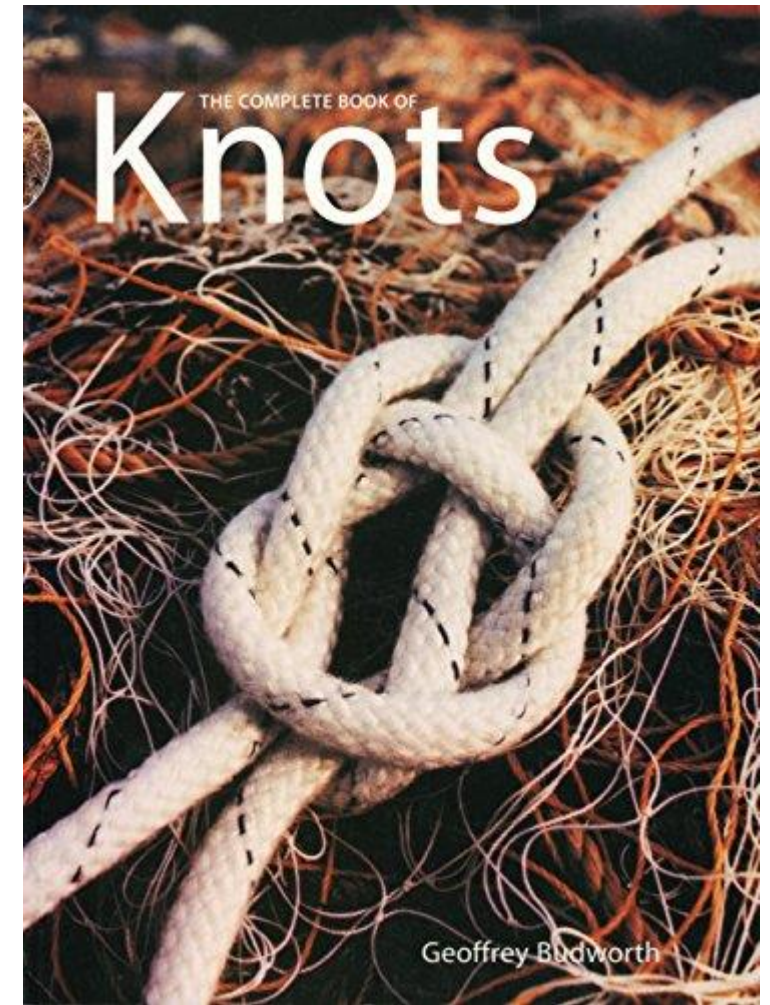


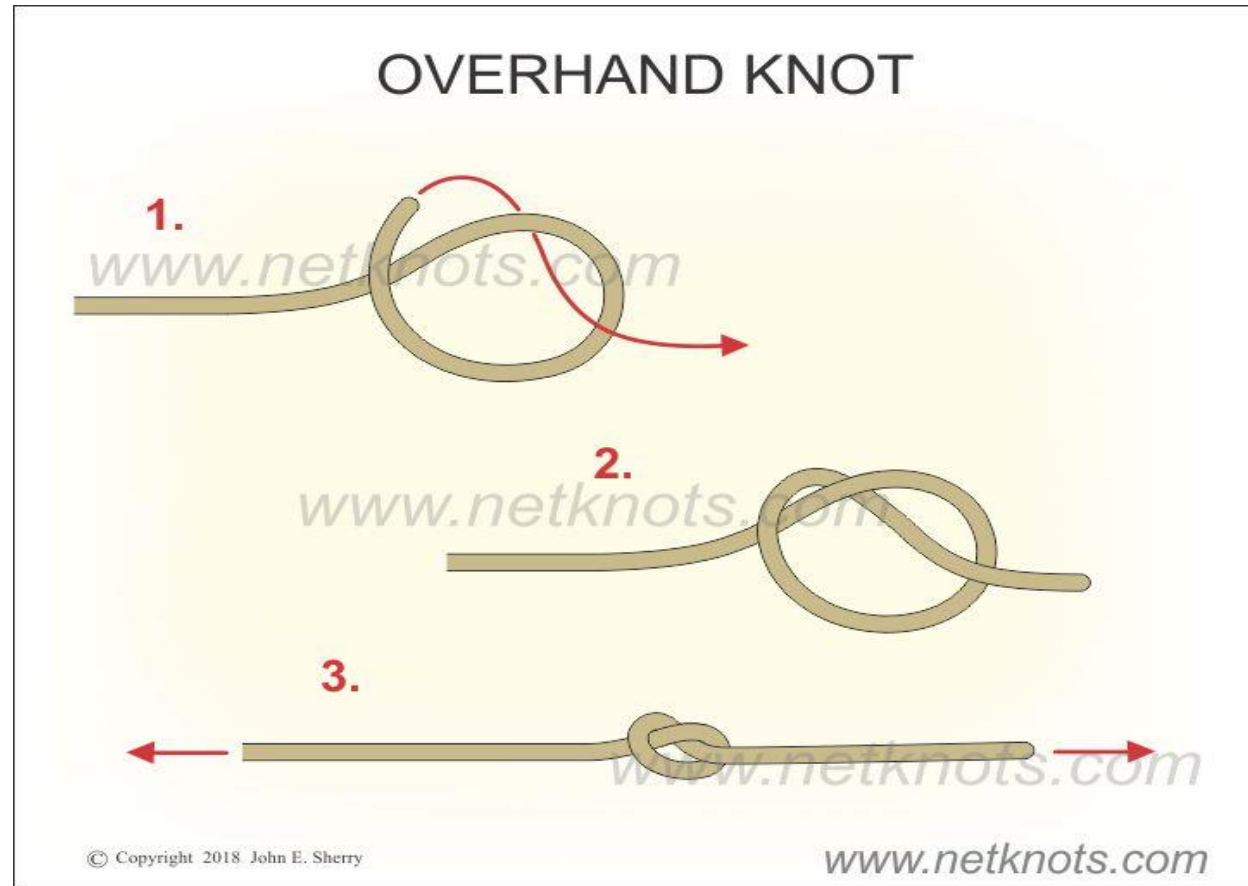


# Knots

- Easy to tie and untie
  - Will not slip
- Reduces the rope's strength
  - Rope
- Bights, Bends and Loops
  - Whipping
  - Splicing



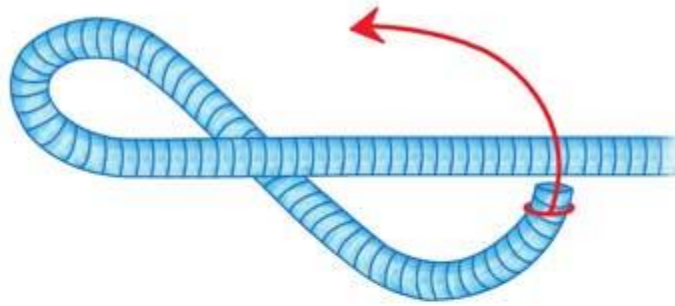
# End Knots



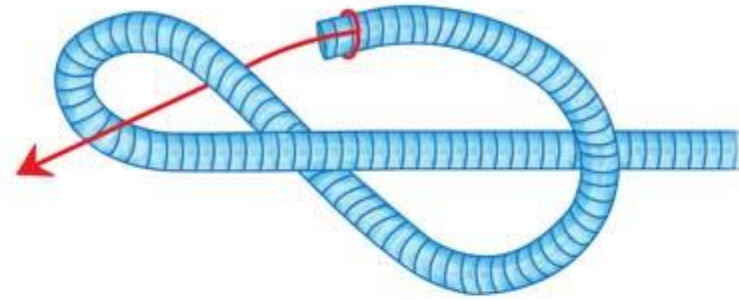
Slippery (Draw-loop)

# Figure eight

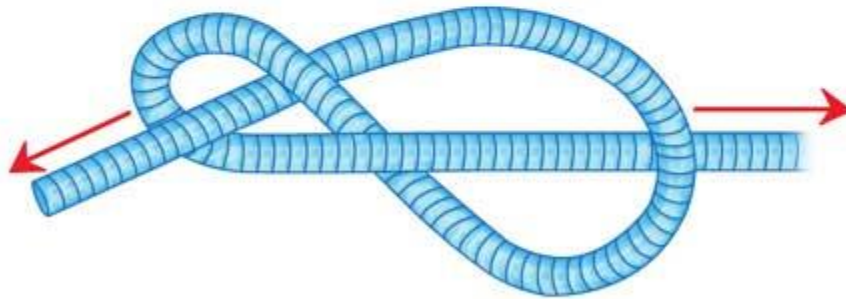
## Figure 8 Knot Instructions



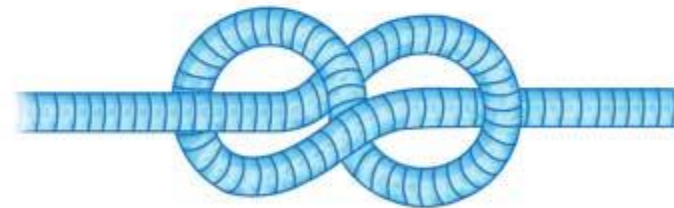
- 1 Make a loop with an end



- 2 Now pass the end through it



- 3 Pull both sides to adjust the knot



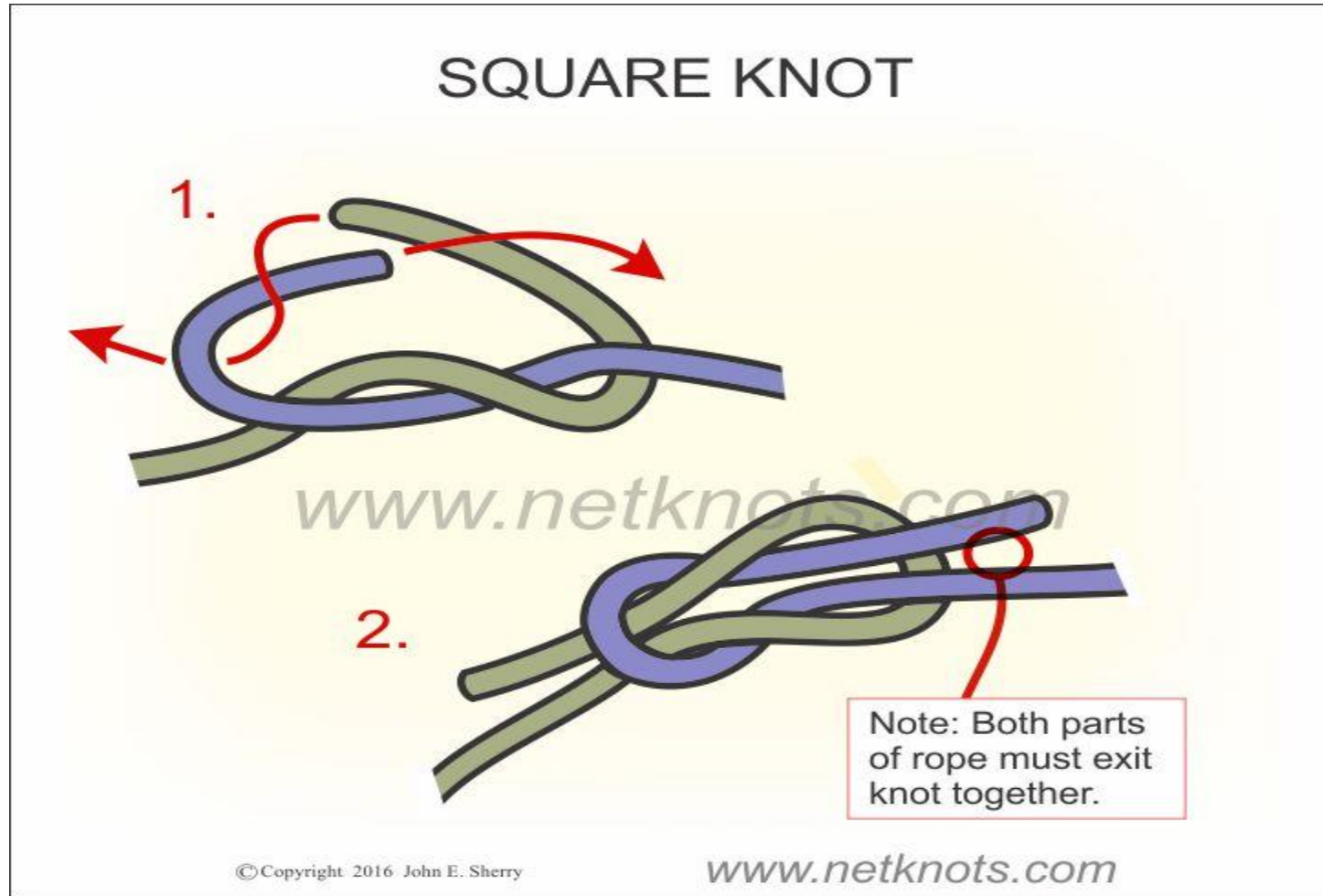
- 4 The finished knot resembles an "8"

# Square Knot

Right over left. Left over right

aka Reef Knot

Substitutes: Fisherman's Knot, Carrick Bend, Zeppelin Bend



# Hitches

## HALF HITCH



**Single Half Hitch**

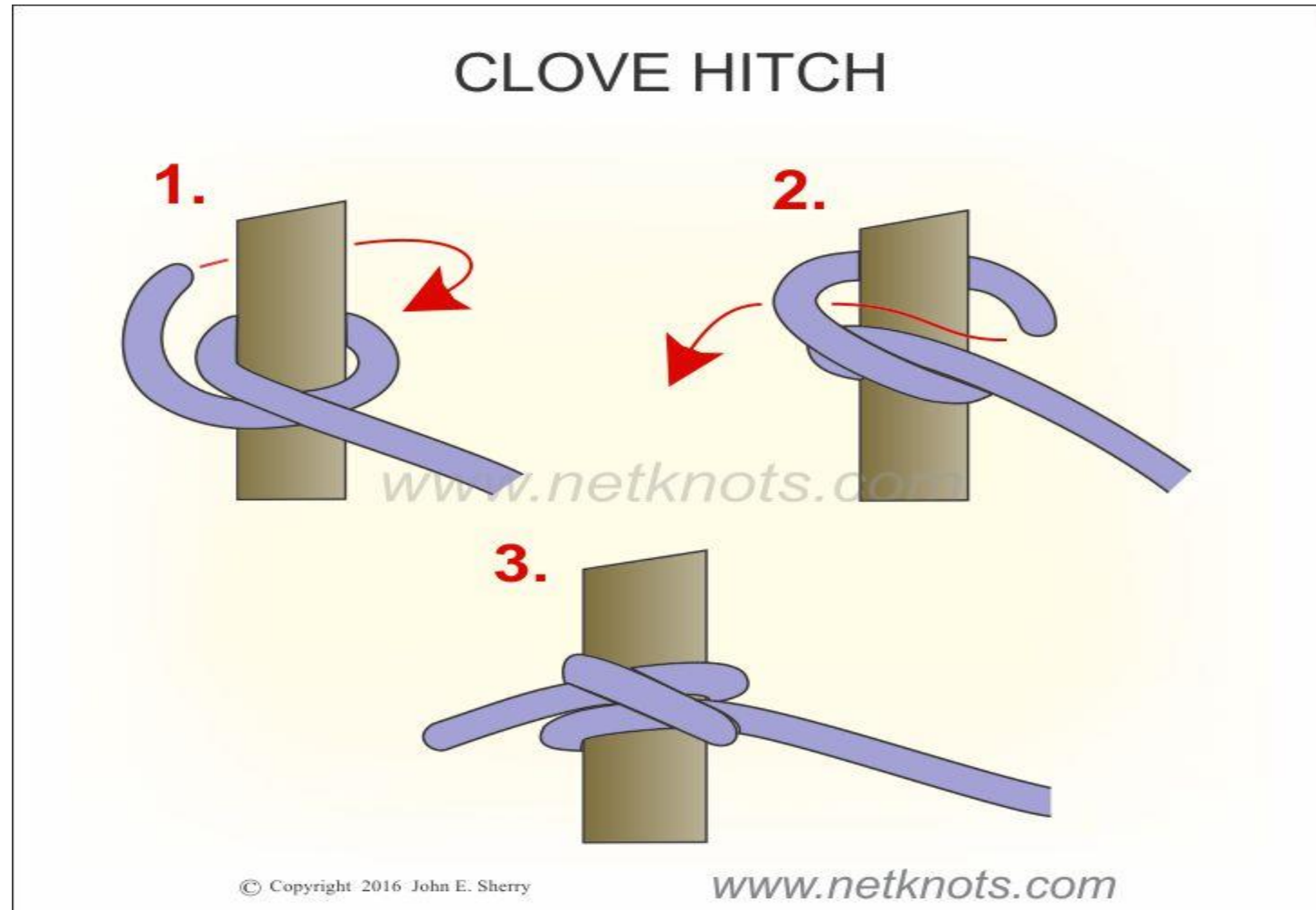


**Two Half Hitches**

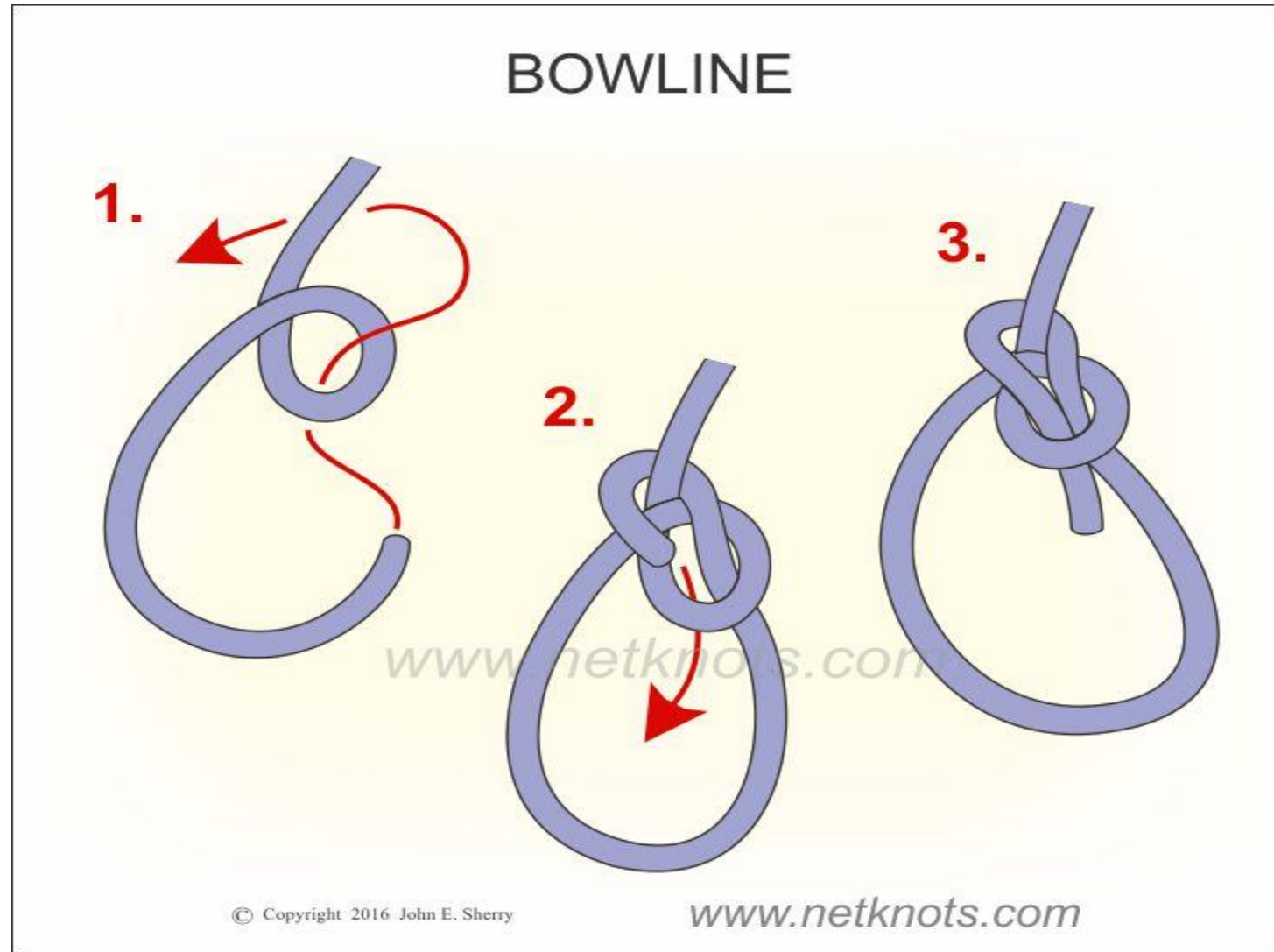
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[www.netknots.com](http://www.netknots.com)

# Clove Hitch



# Bowline



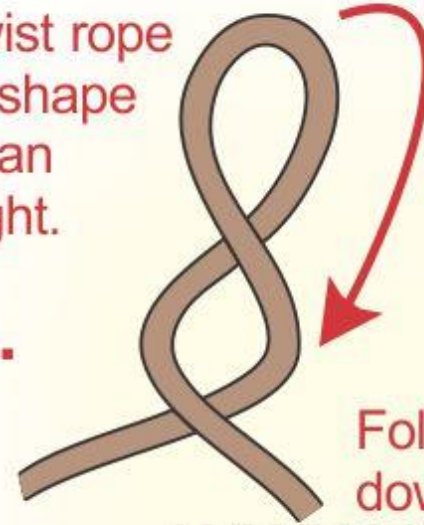
# Bonus: Butterfly Knot

2 ways to tie:  
Loops and handwrap

## ALPINE BUTTERFLY KNOT

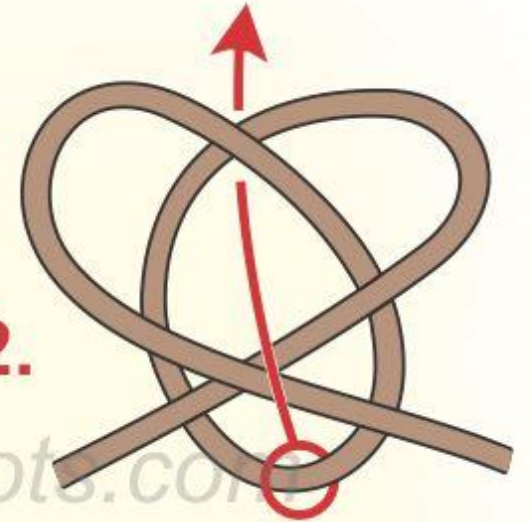
Twist rope  
to shape  
of an  
eight.

1.



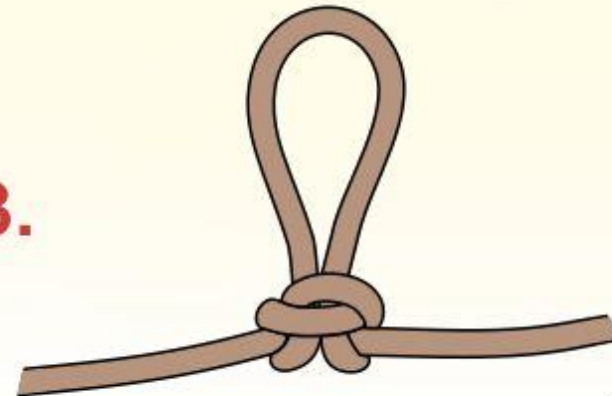
Fold top  
down to  
bottom...

2.



then up and out through the  
lower opening in the eight.

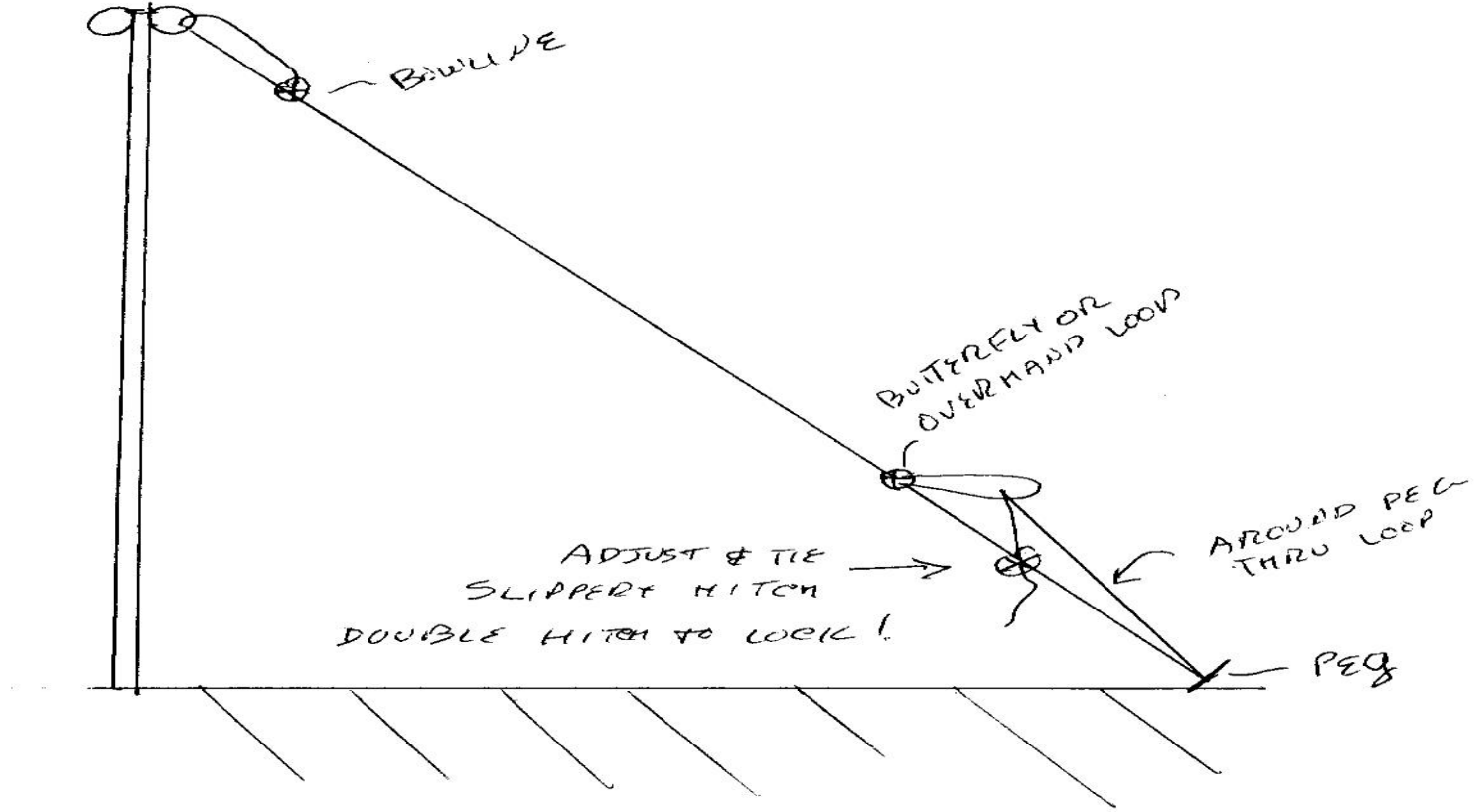
3.





# Ropes as mast guys

Bowlines, Overhand Loops, and Slipper Hitches



## References:

[www.netknots.com](http://www.netknots.com)

[www.101knots.com](http://www.101knots.com)

The Complete Book of Knots by Geoffrey Bidworth