

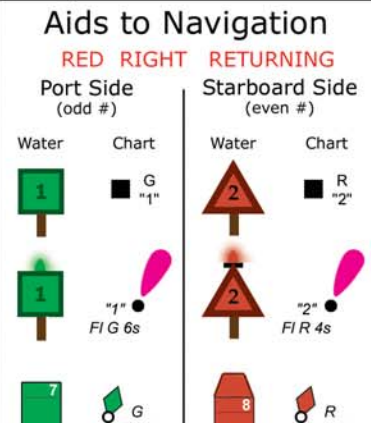
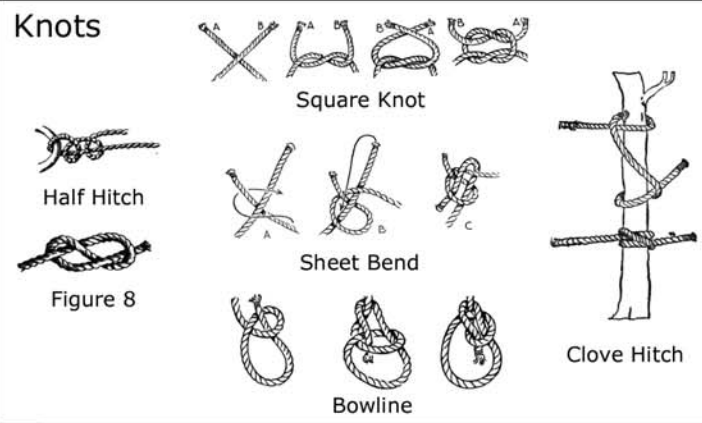
Navigation Equations

True ← → Compass

True Bearing = Relative Bearing + True Heading

Distance = $\frac{\text{Speed} \times \text{Time}}{60}$

S=60D/T
T=60D/S



Cloud Forecasting

Cirrus	Cirrostratus	Cirrocumulus	Altostratus	Alto cumulus	Stratocumulus	Cumulus	Cumulonimbus	Nimbostratus	Stratus
Light, wispy	Gray haze	Fish scales	Thick, dark sheets	Dark layered scales	Large dark puffs	Cotton balls	Dark tight balls	Low heavy dark	Dense gray
Warm front	Possible storm	Change in weather	Rain	Rain	Bad weather	Good weather	Thunderstorms	Heavy rain	Rain

Right of Way Rules

Overall: More maneuverable vessels always give way to less maneuverable vessels. When in doubt, use this rule. Bear in mind larger vessels are usually less maneuverable.

Channels and separation zones: Smaller vessels always give way to larger vessels, such as ships, ferryboats and especially barges under tow.

Vessel type: Recreation vessels always give way to commercial vessels, such as tugs and workboats.

Powerboat to sailboat: Powerboats give way to sailboats under sail. Sailboats under auxiliary power are considered powerboats.

Powerboat to powerboat: Vessel to the left gives way to the vessel on the right.

Sailboat to sailboat: Port tack boat gives way to starboard tack vessel. Windward vessel gives way to leeward vessel when on the same tack.

Overtaking: Overtaking vessel gives way to vessel being passed.

Stopped vessels: Moving vessels always give way to stopped vessels.

The Ultimate Powerboating Cheatsheet

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