

HOUSE No. 1891

By Mr. Dolan of Ipswich (by request), petition of William P. Coughlin relative to the appointment of commissioners of pilots and the rules and regulations governing pilotage and the appointment of pilots. Harbors and Public Lands.

The Commonwealth of Massachusetts

In the Year One Thousand Nine Hundred and Fifty-Nine.

AN ACT RELATIVE TO THE APPOINTMENT OF COMMISSIONERS OF PILOTS, AND CONCERNING RULES AND REGULATIONS GOVERNING PILOTAGE AND THE APPOINTMENT OF PILOTS.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

1 SECTION 1. Chapter one hundred and three of the General
2 Laws is hereby amended by striking out section one, as appear-
3 ing in the Tercentenary Edition, and inserting in place thereof
4 the following: —

5 *Section 1.* For the purpose of this chapter the shore line of
6 the commonwealth shall be divided into four districts. District
7 one shall be the harbor of Boston, and shall include all places
8 of landings accessible to vessels from the sea within the limits
9 of Egg Rock, now or formerly known as Nahant Rock or Nahant
10 Head, on the north, and Point Allerton on the south. District
11 two shall include all landing places accessible to vessels from
12 the sea situated between the New Hampshire state line on the
13 north and Egg Rock on the south, including rivers, bays and
14 sounds adjacent thereto. District three shall include all land-
15 ing places accessible to vessels from the sea situated between
16 Point Allerton on the north and the Rhode Island state line on
17 the west, with all such landing places on the Elizabeth Islands
18 and in the counties of Nantucket and Dukes, including rivers,
19 bays and sounds adjacent thereto, and the Cape Cod canal.
20 District four shall include all landing places on Mount Hope
21 bay and the Taunton river situated within the commonwealth.

22 *Section 2.* In the year nineteen hundred and fifty-six the gov-
23 ernor with the advice and consent of the council, shall appoint
24 two commissioners of pilots for district one, and one deputy
25 commissioner of pilots for each of the other three districts. Such
26 commissioners and deputy commissioners shall hold office until
27 November thirtieth, nineteen hundred and fifty-seven. On or
28 before December first, nineteen hundred and fifty-seven, and on
29 or before said date in every third year thereafter, the governor,
30 with like advice and consent, shall appoint their successors for
31 terms of three years. A deputy commissioner of pilots for any
32 district shall be a resident of a town or city having a landing
33 place accessible to vessels from the sea situated within that dis-
34 trict. In this chapter the word "commissioners" shall be held
35 to mean, as to district one, the commissioners of pilots for said
36 district, and, as to each other district mentioned in section one,
37 the deputy commissioner of pilots for such district. They shall
38 have experience in maritime and nautical affairs.

39 *Section 3.* The commissioners, subject to the approval of the
40 governor and council, shall formulate rules and regulations for
41 pilotage, and establish rates within their respective districts.
42 The commissioners shall grant commissions as pilots for their
43 districts or for special locations therein to such persons as they
44 consider competent after tests and examinations conducted ac-
45 cording to the principles of fair play as applied by the Massa-
46 chusetts civil service, and the commissions shall be granted in
47 the order of the rank attained by the applicants in the tests and
48 examinations. The commissioners may require the civil serv-
49 ice commission to conduct the tests and examinations and pre-
50 pare an eligible list for appointment, as it does in other depart-
51 ments of the public service.

52 *Section 4.* The commissioners shall make rules and regula-
53 tions governing fees collected by pilots for pilotage, the amount
54 they shall pay to the commonwealth, and penalty for a false re-
55 turn on the part of the pilot, all subject to the approval of the
56 governor and council. The compensation of the commissioners
57 and their allowance for office rent, clerk hire and incidental ex-
58 penses shall be determined by the governor and council.

59 *Section 5.* Once in every three months each pilot shall tender
60 to the commissioner of his district an accurate account of all
61 vessels piloted by him and of all money received for pilotage by
62 him or by any person for him, and shall pay to the said commis-

63 sioners four per cent of the amount thereof, and if he makes a
64 false return of money received he shall pay to them not more
65 than fifty dollars.

66 *Section 6.* No person shall receive a commission or exercise
67 the office of pilot until he has given to the state treasurer a bond
68 with two sureties, approved by the commissioners, or a surety
69 bond of a surety company authorized to transact business in the
70 commonwealth, in the penal sum of one thousand dollars, con-
71 ditioned on the faithful performance of the duties of his office
72 and the payment of all damages accruing from his negligence,
73 unskillfulness or unfaithfulness.

1 SECTION 2. The initial appointments of commissioners and
2 deputy commissioners under this act shall be made within
3 thirty days of its effective date. Upon the qualification of the
4 commissioners first so appointed, the terms of office of the com-
5 missioners of pilots for the harbor of Boston shall expire. Upon
6 the qualification of the deputy commissioners, first so appointed,
7 the terms of the deputy commissioners in the districts outside
8 of the harbor of Boston shall expire. The commissions of pilots
9 of any kind shall remain in force until tests and examinations
10 and appointments of persons as pilots are made according to
11 the principles of civil service and in the order of their duly as-
12 certained standing as a result of such tests and examinations.
13 All rules and regulations in force at the time this act takes effect
14 shall continue in force until changed in accordance therewith.

to show that the sum of the squares of the sides of a triangle is equal to the sum of the squares of the medians, and that the sum of the squares of the sides of a triangle is equal to the sum of the squares of the medians, and that the sum of the squares of the sides of a triangle is equal to the sum of the squares of the medians.

Let a, b, c be the sides of a triangle, and m_a, m_b, m_c the medians. Then the sum of the squares of the sides is $a^2 + b^2 + c^2$, and the sum of the squares of the medians is $m_a^2 + m_b^2 + m_c^2$. We will show that $a^2 + b^2 + c^2 = m_a^2 + m_b^2 + m_c^2$. Let D be the midpoint of BC , so that AD is a median. Then $BD = DC = \frac{1}{2}BC$. By the law of cosines, we have $a^2 = b^2 + c^2 - 2bc \cos A$, $b^2 = a^2 + c^2 - 2ac \cos B$, and $c^2 = a^2 + b^2 - 2ab \cos C$. Adding these three equations, we get $a^2 + b^2 + c^2 = 2a^2 + 2b^2 + 2c^2 - 2bc \cos A - 2ac \cos B - 2ab \cos C$. On the other hand, by the law of cosines, we have $m_a^2 = b^2 + c^2 - \frac{1}{4}a^2$, $m_b^2 = a^2 + c^2 - \frac{1}{4}b^2$, and $m_c^2 = a^2 + b^2 - \frac{1}{4}c^2$. Adding these three equations, we get $m_a^2 + m_b^2 + m_c^2 = 2a^2 + 2b^2 + 2c^2 - \frac{1}{4}(a^2 + b^2 + c^2)$. Equating the two expressions for $a^2 + b^2 + c^2$, we get $a^2 + b^2 + c^2 = 2a^2 + 2b^2 + 2c^2 - \frac{1}{4}(a^2 + b^2 + c^2)$, which simplifies to $a^2 + b^2 + c^2 = m_a^2 + m_b^2 + m_c^2$. Thus, the sum of the squares of the sides of a triangle is equal to the sum of the squares of the medians.

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