# ALGEBRA I

Welcome to our final class reunion for this school year.

It's really been a pleasure having all of you as a class but special SHOUT OUTS have to go to Chananya Matyas, Yitzchok Federman, Elimelech Feinstein, Yosef Binyaminov and Yitzchok Leviyev for their consistent week-in-week-out enthusiastic participation in our conference calls, as well as the superior quality of their homework submissions.

As for your marks on the course, you will be receiving a numerical grade on your report card and also a "REGENTS REPLACEMENT" grade of A,B,C,D, or F.  A+ indicates HONORS.

 Looking forward to speaking to all of you at 917-932-8638 this Thursday at 3:45 – 4:05 PM.  As always, if you have additional questions, feel free to call me between 4:00 – 10:00 PM at 718-404-8422.

### IMPORTANT REMINDERS:

1. When answering multiple choice questions, you must indicate in detail how you arrived at your answers.
2. **Please make sure that each and every page submitted has:**
   a) **your full name**
   b) **your class**
   c) **the date of the assignment.**
3. Work may be returned in via any of the following:

    Email mathi.mirrer@gmail.com
    Fax 718 375 6342
    Mail Mirrer Mesivta High School 1791-5 Ocean Parkway Brooklyn NY 11223

    Please indicate how you would like your work to be returned.

**Please remember on multiple choice problems  to give full details of how you arrived at the answer.**

Wishing you all a healthy, happy and safe summer.

Rabbi E. Isralewitz

**This week's work:**
**January 2017, number 10**
**January 2017, number 26**
**August 2017, number 17**
**August 2018, number 9**

# JANUARY 2017

**10** Faith wants to use the formula $C(f) = \frac{5}{9}(f - 32)$ to convert degrees Fahrenheit, $f$, to degrees Celsius, $C(f)$. If Faith calculated $C(68)$, what would her result be?

(1) 20° Celsius          (3) 154° Celsius

(2) 20° Fahrenheit       (4) 154° Fahrenheit

**26** A typical marathon is 26.2 miles. Allan averages 12 kilometers per hour when running in marathons.

Determine how long it would take Allan to complete a marathon, to the *nearest tenth of an hour*. Justify your answer.

## AUGUST 2017

**17** The highest possible grade for a book report is 100. The teacher deducts 10 points for each day the report is late.

Which kind of function describes this situation?

(1) linear

(2) quadratic

(3) exponential growth

(4) exponential decay

## AUGUST 2018

**9** Lizzy has 30 coins that total $4.80. All of her coins are dimes, $D$, and quarters, $Q$. Which system of equations models this situation?

(1) $D + Q = 4.80$
$.10D + .25Q = 30$

(2) $D + Q = 30$
$.10D + .25Q = 4.80$

(3) $D + Q = 30$
$.25D + .10Q = 4.80$

(4) $D + Q = 4.80$
$.25D + .10Q = 30$