

## Math C Prerequisite Exercise Answers

1.	a. $x = 2, -3$	b. $x = \frac{11}{10}$	c. $x = \frac{1}{3}, -\frac{6}{5}$	d. $x = 2$	e. no solutions	f. $x = -1$
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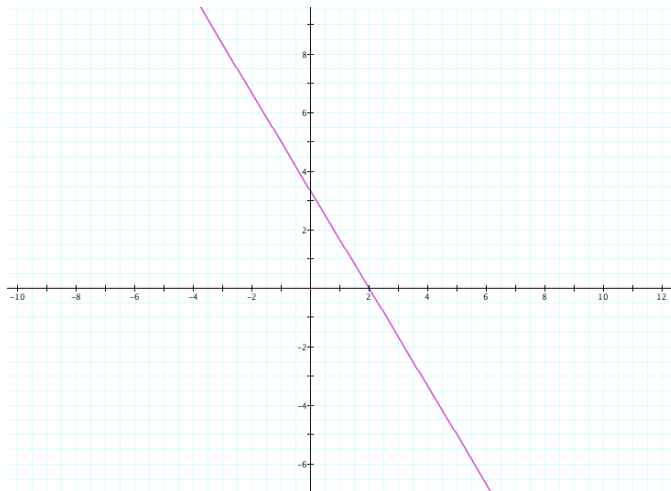
2.	a. $18x^2 - 27x - 35$	b. 6552	c. $81x^2 - 121$	d. $-21x^2y^5$	e. $49x^2 - 42x + 9$	
	f. $-\frac{9x^{14}}{4y^9}$	g. $-x^3 - 7x^2 + 11x - 19$	h. $\frac{3x^2 - 11x - 2}{(5x + 1)(x - 2)(3x - 1)}$		i. $\frac{x - 5}{2x + 3}$	j. $\frac{1 - 3x}{3x^2 + 1}$

3.	7
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4.	a. $(x - 6)(x + 1)$	b. $(9x + 2)(2x - 3)$	c. $3x(3x^2 + 2)(x - 4)$
	d. $19rs(2 - r)(2 + r)$	e. $(4x + 1)(16x^2 - 4x + 1)$	f. $3(x + 6)(x - 2)$

5.

x	y	
2	0	x-intercept
0	10/3	y-intercept
5	-5	
-1	5	
-4	10	
8	-10	etc.



c. slope =  $-\frac{5}{3}$

6.	slope-intercept form: $y = -\frac{7}{6}x - \frac{2}{3}$
	standard form: $7x + 6y = -4$
	point-slope form: $y + 3 = -\frac{7}{6}(x - 2)$ or $y - 4 = -\frac{7}{6}(x + 4)$

7.	a. length: 4 ft. width: 1 ft. perimeter: 10 ft.	b. 4%: 5 cups 1%: 10 cups	c. 1:30 p.m. 397.5 miles	d. lemon drops: 40 lbs. jelly beans: 60 lbs.
	e. area of square: 1790.35 sq. yds. area of circle: 1790.49 sq. yds. circle has largest area	f. $2\frac{2}{9}$ hr.	g. 333.2 ft.	h. 2 or $\frac{2}{5}$