

Algorithm 2: Biomass Final Exam Study Guide Fall 2017

1. Divide $\frac{3x^2 - 25x^3 + 10x^4 - 3x^5 + 2x^6 - 2x^7 + 2x^8 - 2x^9}{2x^2 - 2x - 4}$

2. Rewrite the equation of the parabola in vertex form: $y = 20x^2 - 80x + 72$ by completing the square: $x = -\frac{b}{2a} = -\frac{-80}{40} = 2$.

3. Simplify: $\frac{20x^2 - 80x + 72}{2x^2 - 2x - 4}$

4. State any obvious restrictions, and simplify:

a) $\frac{20x^2 - 80x + 72}{20x^2 - 80x - 72}$

b) $\frac{20x^2 - 80x + 72}{20x^2 - 80x - 72}$

c) $\frac{2x^2 - 4x - 36}{2x^2 - 4x - 36}$

5.2. The point-slope form of a line is $y = p_1 + m(x - p_2)$.

- a) A line of slope -1 passes through the point $(5, -7)$. Write the equation of this line in point-slope form.

b) Consider the equation $y = 2x + 3(x - 7)$.

- i) Name one obvious point this line passes through.
ii) What is the slope of this line?

6. When is multiplying a polynomial $P(x)$ - like $x^2 + 3x + 2$, and $x^3 - 2x^2 + 3x - 1$ - the result will be zero, and determine the sign of the factors for the following value assignments:

	$x = -2$	$x = -1$	$x = 0$	$x = 1$	$x = 2$	$x = 3$	$x = 4$	$x = 5$
$P(x)$	-	0	+	0	-	0	+	0

a) Make a sketch of this function, clearly labeling the roots.

b) Assuming one root has a multiplicity greater than 1, what is the degree of $P(x)$?

7. Sketch an analysis of each function for determine what is an even function, an odd function, or neither.

a) $y = x^3 + x^5 + x^7$

b) $y = x^3 + x^5 - x^7$

c) $y = x^3 - x^5 + x^7 - x^9$

8. A polynomial with a given degree is shown. In each case, the number and nature of the roots are indicated. Show in a polynomial of the same degree that each graph matches the roots as described.

- a) Degree 4 polynomial, three distinct real roots.



- b) Degree 4 polynomial, three distinct roots and one of which has a multiplicity of 2.

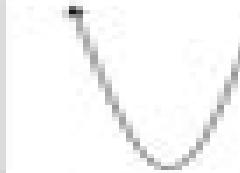


c) The questions in part (a) are possible. Show in a polynomial of the same degree that each graph matches the roots as described.

- i) Degree 3 polynomial, 3 conjugate roots and 2 distinct real roots, one of the real roots has a multiplicity of 2.



- ii) Degree 3 polynomial, no real roots.



9. Carl the construction worker needs to travel 200 miles, because there is little traffic, but without the traffic, he has to drive 200 miles per hour rather than 60 mph. It takes him 2 hours longer to get home. Assuming he drives the same distance to and from work, how far is his round trip home like home? (Assume Carl's car uses efficiency with route of travel.)

10. A solution has 2 liters of a solution which is 100% acid, and an unlimited amount of a solution which is 100% acid. When exactly 100% solution of acid must be added to the 2 liters to bring it to a 27.78% concentration of acid?

11. Apply the remainder theorem to show that $x + 1$ is a factor of $20x^4 - 47x^3 - 3$.

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Huangqi Zhang

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