

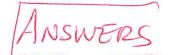
Hon Alg 2 Ch 6

End Behavior

Fall 2016

In-class Review

Answer Sheet



Name:

Station 1: State the Degree, Leading Coefficient, and End Behavior

- 1. Deg:
- LC: 1
- (K,1)
- 2. Deg: S
- LC: -500

End Behavior / / / /)

Station 2: Find all Real and Imaginary Solutions by factoring.

X= 0, ±3i, ±17

X= 3. ± i16

Station 3: Find the quotient using Synthetic Division. 5x3-21x2+71x-214 R=653

Station 4: Find the quotient.

- 2x2+6x-9

3x2-4x+1 R=15

Station 5: Name by Degree and # of Terms

- 1. by Degree: Linear by # Terms Monomial
- 2. by Degree: Cubic

- 3. by Degree:
- 4. by Degree: Quadratic

Station 6: Write eq of Polynomial graph

4=-x2(x+6)3(x+5)(x-4)(x-7)2

Station 7: Graph Polynomial:



Station 8: Graph to find Abs Max/Min, Rel Max/Min, & Zeros, if any

- Absolute Max:
- Absolute Min: NoNE
- Zeros:

(0.28, 9.91

- Relative Max:
- Relative Min:
 - (-1,78, -3,23)

Station 9:

(-3,0)

- No Remainder = 172, NOT Zero Is it a factor? Explain your answer.
- 2. Given the two zeros, divide to find remaining zeros. Other two zeros: $\pm 2 \mathring{L}$
- 3. Find just the remainder of a quotient: Remainder = 7/67

Station 10: Expanded Form =

- a) 243g5-405g4h+270g3h2-90g2h3+15gh4-h5
- b) 625c4+2000c3d+2400c2d2+1280cd3+256d4



Hon Alg 2 Ch 6

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In-class Review

Answer Sheet / Answers

Name:

Station 1: State the Degree, Leading Coefficient, and End Behavior

- 1. Deg: 6
- LC: -27
- 2. Dea:
- LC: 1000

End Behavior / / , \)

End Behavior ((, 1)

Station 2: Find all Real and Imaginary Solutions by factoring.

 $X=0,\pm 2,\pm i\sqrt{3}$

2. $x = \frac{4}{3} \pm i \sqrt{3}$

Station 3: Find the quotient using Synthetic Division.

3x3-14x2 +63x-311 R=1549

Station 4: Find the quotient.

3x2+5x-7

b) $2x^2 - x + 7 R = -5$

Station 5: Name by Degree and # of Terms

- 1. by Degree: Quadratic
- by # Terms Trinomial
- 2. by Degree: Constant
- by # Terms Monomial

- 3. by Degree:
- by # Terms Monomial
- 4. by Degree:
- by # Terms .
 Binomial

Station 6: Write eq of Polynomial graph

 $y = -\chi^{3}(x+6)^{2}(x+5)(x-6)(x-9)^{3}$

Station 7: Graph Polynomial:

NEG ODD D

Station 8: Graph to find Abs Max/Min, Rel Max/Min, & Zeros, if any

- Absolute Max:

- Zeros:
- -2.95, -1.56,0.16

NUNE

(-0,72,3.43)

Absolute Min: (-2.41, -4.41)

Relative Max:

Relative Min:

Station 9:

- 1. Is it a factor? Explain your answer. Yes, Demain dar = 0
- 2. Given the two zeros, divide to find remaining zeros. Other two zeros: \pm $\mathring{\iota}$ $\sqrt{3}$
- 3. Find just the remainder of a quotient: Remainder = -130

Station 10: Expanded Form =

- a) P5 # 10P40 + 40P302 # 80P203 + 80p4400 3295
- b) (DS)AMPRODAM. 256E4 +1280E3F+2400E2F2+2000EF3+625F4