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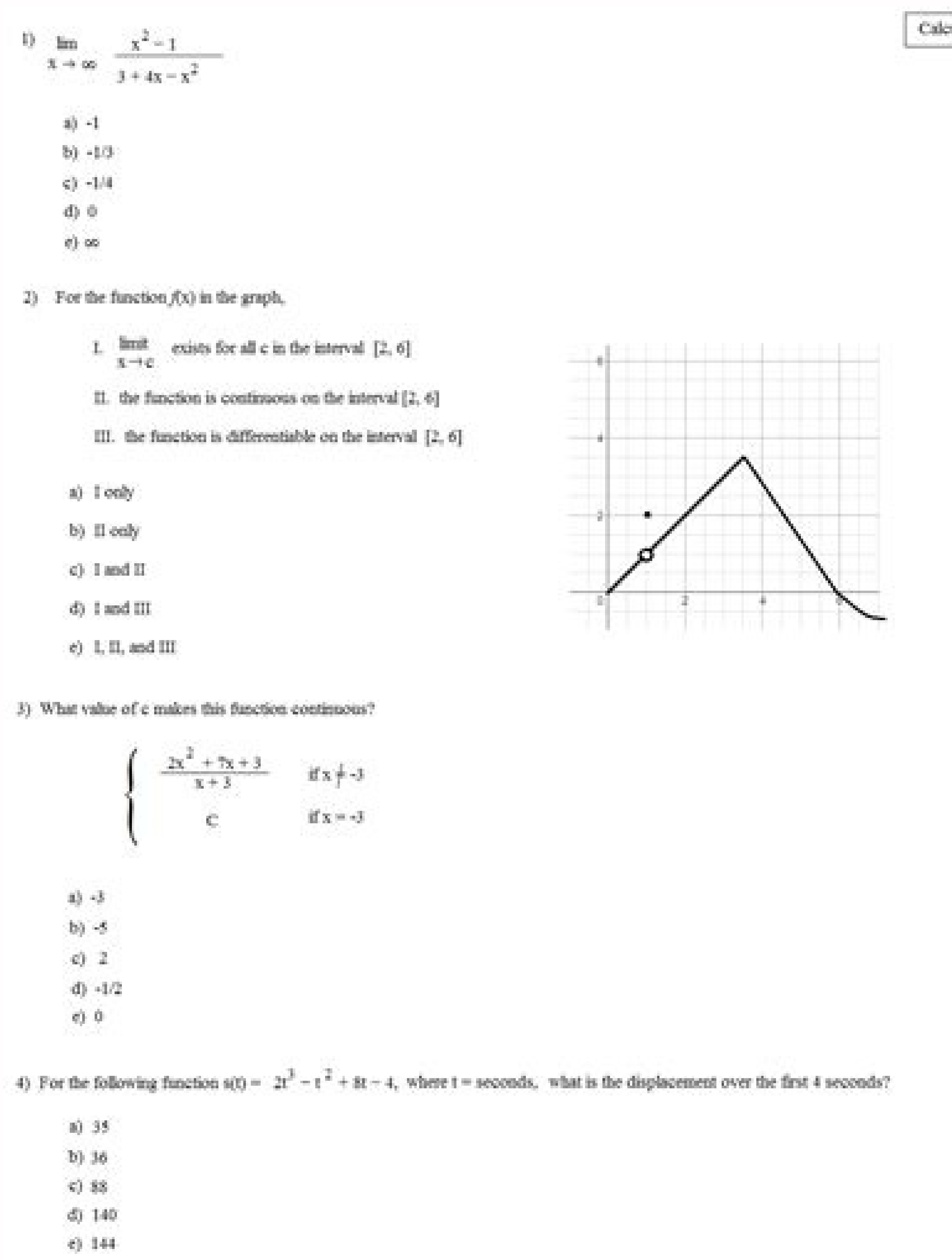
Fundamental theorem of algebra practice worksheet answers pdf 2017



Calculus Multiple Choice Questions

1) $\lim_{x \to \infty} \frac{x^2 - 1}{3 + 4x - x^2}$

a) -1
b) -1/3
c) -1/4
d) 0
e) ∞

2) For the function $f(x)$ in the graph,

I. $\lim_{x \to c}$ exists for all c in the interval [2, 6]

II. the function is continuous on the interval [2, 6]

III. the function is differentiable on the interval [2, 6]

a) I only
b) II only
c) I and II
d) I and III
e) I, II, and III

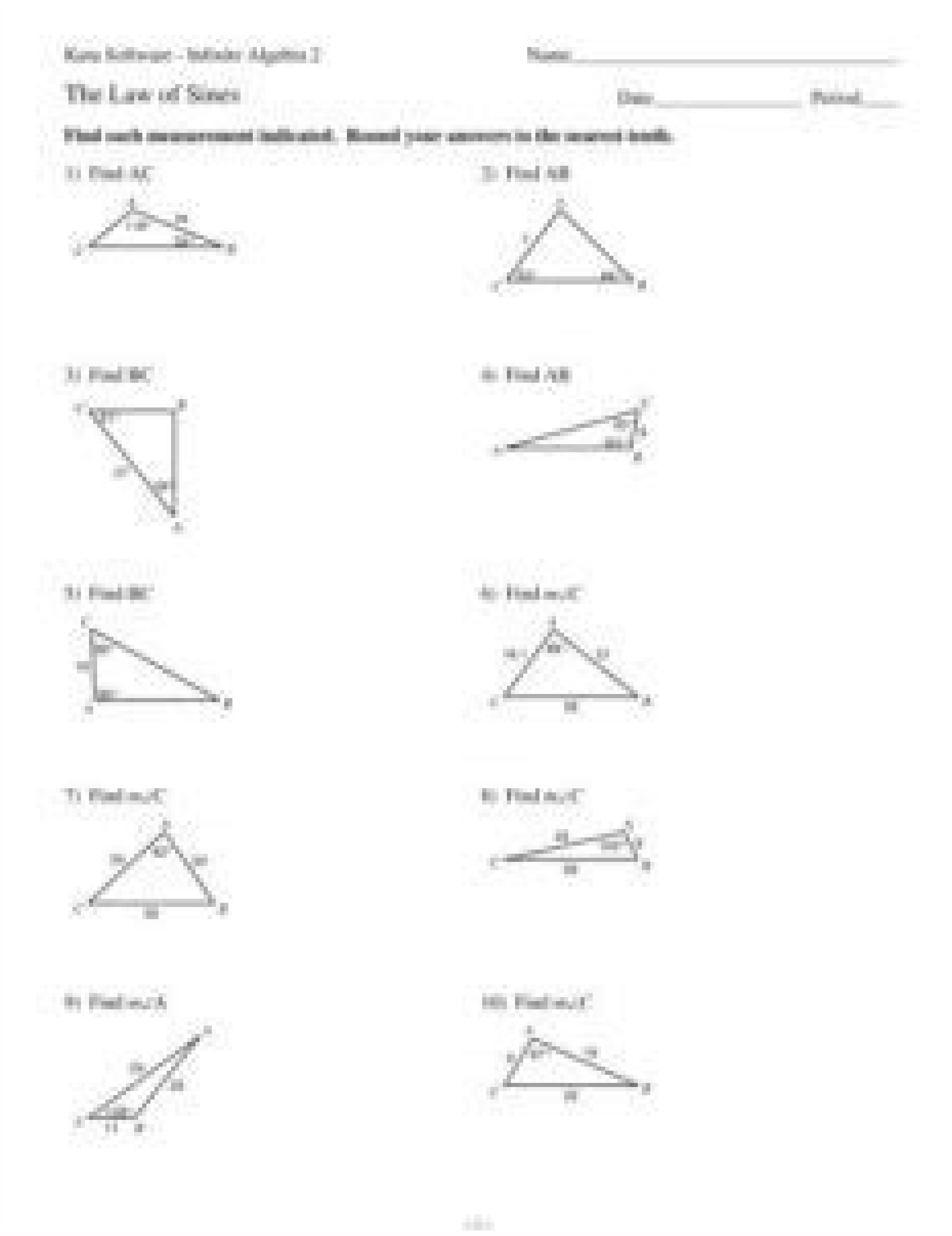
3) What value of c makes this function continuous?

$$\begin{cases} \frac{2x^2 + 7x + 3}{x + 3} & \text{if } x \neq -3 \\ c & \text{if } x = -3 \end{cases}$$

a) -3
b) -5
c) 2
d) -1/2
e) 0

4) For the following function $s(t) = 2t^3 - t^2 + 8t - 4$, where t = seconds, what is the displacement over the first 4 seconds?

a) 35
b) 36
c) 88
d) 140
e) 144



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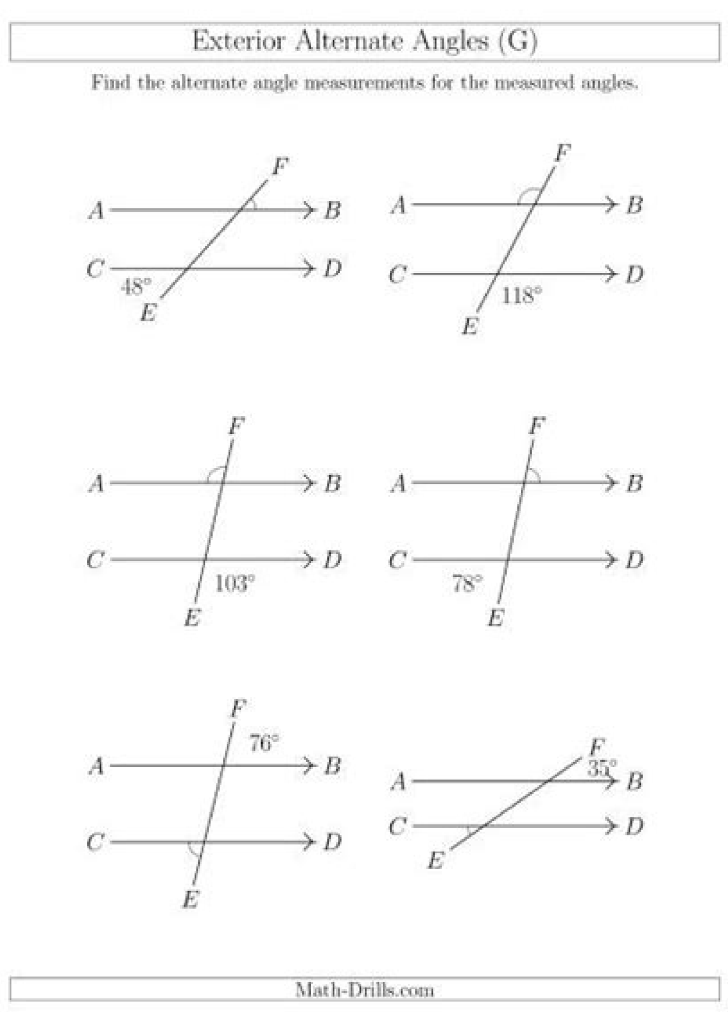
The Law of Sines Date________ Period____

Find each measurement indicated. Round your answers to the nearest tenth.

1) Find AC
2) Find AB
3) Find BC
4) Find AB
5) Find BC
6) Find m∠C
7) Find m∠C
8) Find m∠C
9) Find m∠A
10) Find m∠C



Exterior Alternate Angles (G)

Find the alternate angle measurements for the measured angles.

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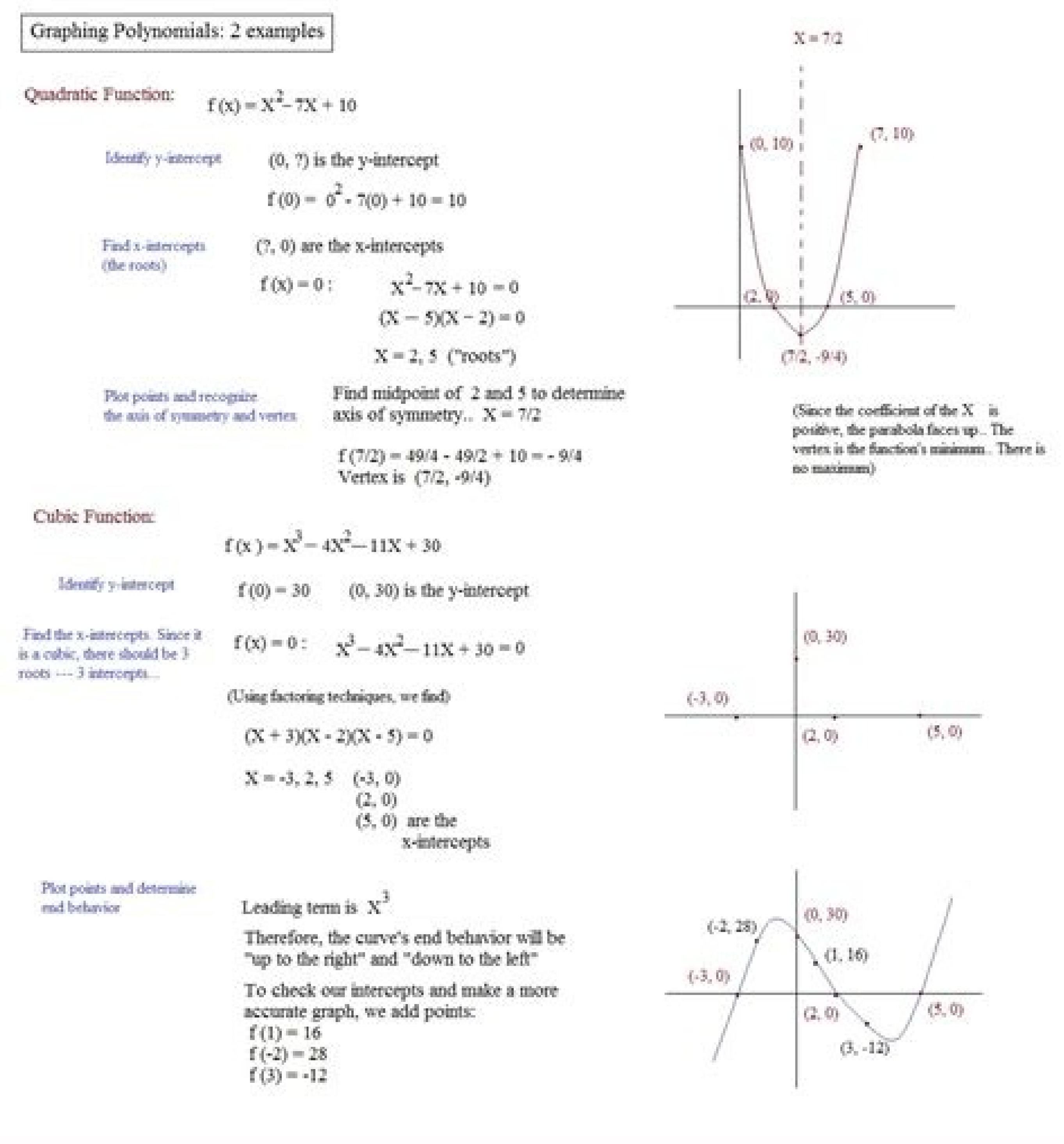

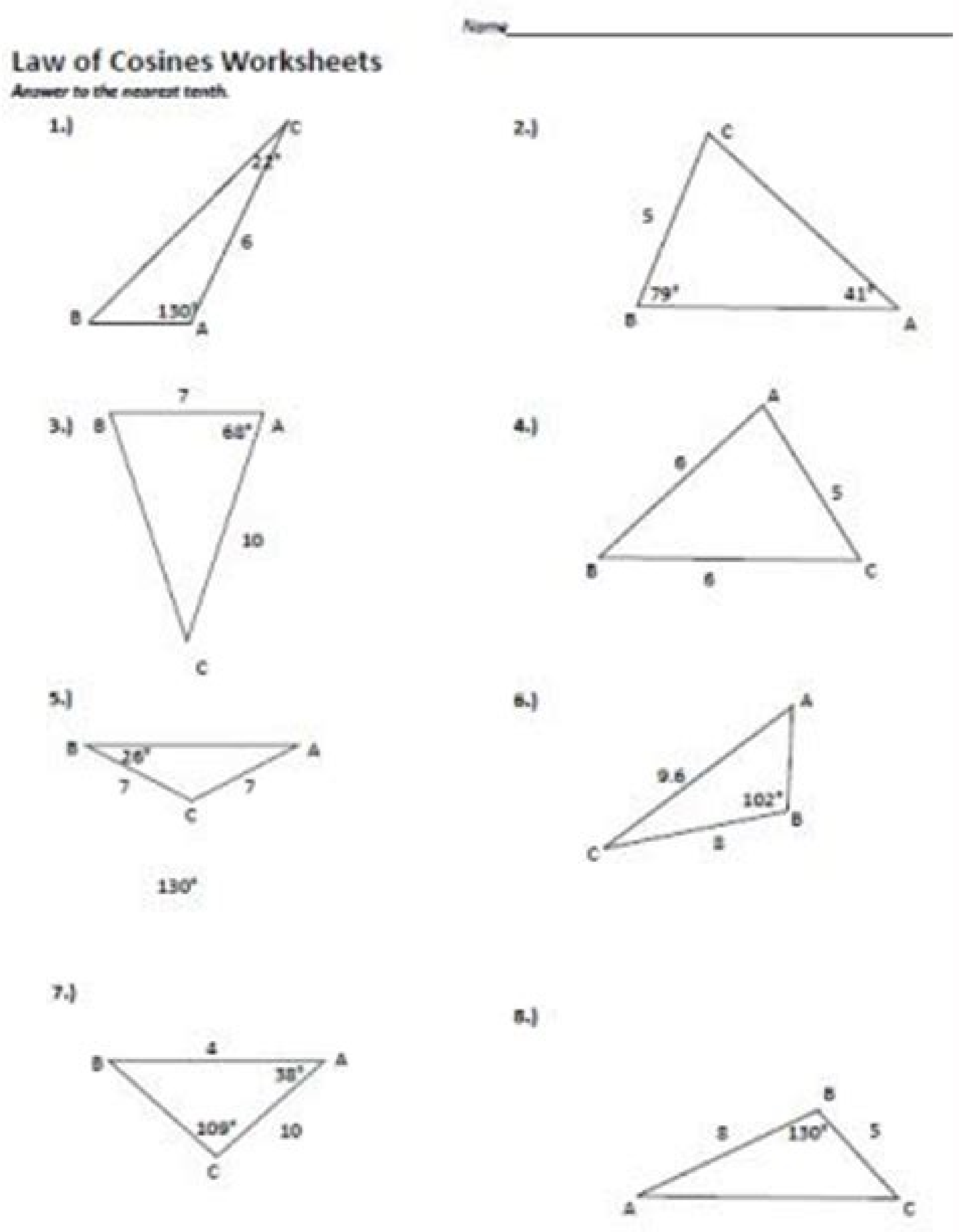

guaranteed! The degree is 1. We want it to be equal to zero: x2 − 9 = 0 Add 9 to both sides: x2 = +9 Then take the square root of both sides: x = ±3 So the roots are −3 and +3 And there is something else of interest: A polynomial can be rewritten like this: The factors like (x−r1) are called Linear Factors, because they make a line when we plot them. Just calculate the "discriminant": b2 - 4ac (Read Quadratic Equations to learn more about the discriminant.) When b2 − 4ac is negative, the Quadratic has Complex solutions, and so is "Irreducible" a = 2, b = 3, and c = 5: b2 − 4ac = 32 − 4×2×5 = 9−40 = −31 The discriminant is negative, so it is an "Irreducible Quadratic" Multiplicity Sometimes a factor appears more than once. Let us find the roots: We want it to be equal to zero: 3x2 − 12 = 0 3 and 12 have a common factor of 3: 3(x2 − 4) = 0 We can solve x2 − 4 by moving the −4 to the right and taking square roots: x2 = 4 x = ±2 So the roots are: x = −2 and x = +2 And so the factors are: 3x2 − 12 = 3(x+2)(x−2) Likewise, when we know the factors of a polynomial we also know the roots. Complex Roots always come in pairs! You saw that in our example above: Has these roots: 0.5 − 0.866i and 0.5 + 0.866i The pair are actually complex conjugates (where we change the sign in the middle) like this: Always in pairs? Factoring is easy, just factor out x3: x4+x3 = x3(x+1) = x·x·x·(x+1) there are 4 factors, with "x" appearing 3 times. Which means we automatically know this: Degree Roots Possible Combinations 1 1 1 Real Root 2 2 2 Real Roots, or 2 Complex Roots 3 3 3 Real Roots, or 1 Real and 2 Complex Roots 4 4 4 Real Roots, or 2 Real and 2 Complex Roots, or 4 Complex Roots etc etc! And so: When the degree is odd (1, 3, 5, etc) there is at least one real root ... x2−6x+9 = (x−3)(x−3) "(x−3)" appears twice, so the root "3" has Multiplicity of 2 The Multiplicities are included when we say "a polynomial of degree n has n roots". All rights reserved. Let us solve it. ... where r1, etc are the roots Roots may need to be Complex Numbers Complex Roots always come in pairs Multiplying a Complex pair gives an Irreducible Quadratic So a polynomial can be factored into all real factors which are either: Linear Factors or Irreducible Quadratics Sometimes a factor appears more than once. Yes (unless the polynomial has complex coefficients, but we are only looking at polynomials with real coefficients here!) So we either get: no complex roots 2 complex roots 4 complex roots, etc And never 1, 3, 5, etc. That type of Quadratic (where we can't "reduce" it any further without using Complex Numbers) is called an Irreducible Quadratic. And so on. x2−x+1 = 0 Using the Quadratic Equation Solver the answer (to 3 decimal places) is: 0.5 − 0.866i and 0.5 + 0.866i They are complex numbers! But they still work. And remember that simple factors like (x-r1) are called Linear Factors So a polynomial can be factored into all Real values using: Linear Factors, and Irreducible Quadratics x3−1 = (x−1)(x2+x+1) It has been factored into: 1 linear factor: (x−1) 1 irreducible quadratic factor: (x2+x+1) To factor (x2+x+1) further we need to use Complex Numbers, so it is an "Irreducible Quadratic" How do we know if the Quadratic is Irreducible? A Complex Number is a combination of a Real Number and an Imaginary Number And here is an example: Can we make it equal to zero? And so the factors are: x2−x+1 = (x − (0.5−0.866i))(x − (0.5+0.866i)) Complex Pairs So the roots r1, r2, ... etc may be Real or Complex Numbers. 3x2 − 18x + 24 = a(x−r1)(x−r2) I just happen to know this is the factoring: 3x2 − 18x + 24 = 3(x−2)(x−4) And so the roots (zeros) are: Let us check those roots: 3(2)2 − 18(2) + 24 = 12 − 36 + 24 = 0 3(4)2 − 18(4) + 24 = 48 − 72 + 24 = 0 Yes! The polynomial is zero at x = +2 and x = +4 Complex Numbers We may need to use Complex Numbers to make the polynomial equal to zero. But there is something interesting... The roots are r1 = −3 and r2 = +3 (as we discovered above) so the factors are: x2 − 9 = (x+3)(x−3) (in this case a is equal to 1 so I didn't put it in) The Linear Factors are (x+3) and (x−3) So knowing the roots means we also know the factors. Don't Want Complex Numbers? That is its Multiplicity. it is purely Real. A polynomial of degree 4 will have 4 roots. but that is a lot of words that sound confusing ... So when I say there are "2 Real, and 2 Complex Roots", I should be saying something like "2 Purely Real (no Imaginary part), and 2 Complex (with a non-zero Imaginary Part) Roots" ... Copyright © 2017 MathsIsFun.com © 2022 Kuta Software. So, a polynomial of degree 3 will have 3 roots (places where the polynomial is equal to zero). But Real is also Complex! I have been saying "Real" and "Complex", but Complex Numbers do include the Real Numbers. The "Fundamental Theorem of Algebra" is not the start of algebra or anything, but it does say something interesting about polynomials: Any polynomial of degree n has n roots but we may need to use complex numbers Let me explain: A Polynomial looks like this: example of a polynomial this one has 3 terms A "root" (or "zero") is where the polynomial is equal to zero. There should be 4 roots (and 4 factors), right? But there seem to be only 2 roots, at x=−1 and x=0: But counting Multiplicities there are actually 4: "x" appears three times, so the root "0" has a Multiplicity of 3 "x+1" appears once, so the root "−1" has a Multiplicity of 1 Total = 3+1 = 4 Summary A polynomial of degree n has n roots (where the polynomial is zero) A polynomial can be factored like: a(x−r1)(x−r2)... x2 − 9 has a degree of 2 (the largest exponent of x is 2), so there are 2 roots. If we don't want Complex Numbers, we can multiply pairs of complex roots together: (a + bi)(a − bi) = a2 + b2 We get a Quadratic Equation with no Complex Numbers ... so I hope you don't mind my (perhaps too) simple language. It is degree 2 so there are 2 factors. There is one real root At +2 actually: : You can actually see that it must go through the x-axis at some point. Here is another example: It is degree 2, so there are 2 roots.

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