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In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Show Mobile Notice Show All Notes Hide All Notes Mobile Notice You appear to be on a device with a "narrow" screen width (i.e. you are probably on a mobile phone). Due to the nature of the mathematics on this site it is best views in landscape mode. If your device is not in landscape mode many of the equations will run off the side of your device (should be able to scroll to see them) and some of the menu items will be cut off due to the narrow screen width. Here are a set of practice problems for the Polynomial Functions chapter of the Algebra notes. If you'd like a pdf document containing the solutions the download tab above contains links to pdf's containing the solutions for the full book, chapter and section. At this time, I do not offer pdf's for solutions to individual problems. If you'd like to view the solutions on the web go to the problem set web page, click the solution link for any problem and it will take you to the solution to that problem. Note that some sections will have more problems than others and some will have more or less of a variety of problems. Most sections should have a range of difficulty levels in the problems although this will vary from section to section. Here is a list of all the sections for which practice problems have been written as well as a brief description of the material covered in the notes for that particular section. Dividing Polynomials – In this section we'll review some of the basics of dividing polynomials. We will define the remainder and divisor used in the division process and introduce the idea of synthetic division. We will also give the Division Algorithm. Zeroes/Roots of Polynomials – In this section we'll define the zero or root of a polynomial and whether or not it is a simple root or has multiplicity (k). We will also give the Fundamental Theorem of Algebra and The Factor Theorem as well as a couple of other useful Facts. Graphing Polynomials – In this section we will give a process that will allow us to get a rough sketch of the graph of some polynomials. We discuss how to determine the behavior of the graph at (x)-intercepts and the leading coefficient test to determine the behavior of the graph as we allow x to increase and decrease without bound. Finding Zeroes of Polynomials – As we saw in the previous section in order to sketch the graph of a polynomial we need to know what it's zeroes are. However, if we are not able to factor the polynomial we are unable to do that process. So, in this section we'll look at a process using the Rational Root Theorem that will allow us to find some of the zeroes of a polynomial and in special cases all of the zeroes. Partial Fractions – In this section we will take a look at the process of partial fractions and finding the partial fraction decomposition of a rational expression. What we will be asking here is what "smaller" rational expressions did we add and/or subtract to get the given rational expression. This is a process that has a lot of uses in some later math classes. It can show up in Calculus and Differential Equations for example. When we are asked to find the zeros of a polynomial function, we are trying to find the x-value or x-values for which the function is equal to zero. Test Objectives Demonstrate the ability to find the zeros for a polynomial function Transcript NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ Notes about this Practice Test: 1. This practice test looks a lot like your actual Unit Test. It's about the same size (without a few multiple choice questions) with roughly the same types of questions. The difficulty level is very similar to your actual test. 2. This test is not an exhaustive list of all the topics we have covered in class. You should review your notes, the WIKI notes, your worksheets and quizzes. 3. Redo old homework and quiz questions! 4. Ask questions (of me and of each other). 5. Do the review package (refer to #2 on this list – same thing applies). 6. Answers are in the Solutions Book in the Dry Lab. 1 NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ Polynomial Functions PRACTICE Test: 1. For the function  $f(x) = x^2 + 3x - 1$  a) describe the end behaviour \_\_\_\_\_ b) determine the x-intercepts \_\_\_\_\_ c) which finite differences will be constant? (1st, 2nd, ...) \_\_\_\_\_ d) what will be the value of the constant common difference? \_\_\_\_\_ 2. Determine algebraically whether the function  $f(x) = 2x^4 + x^2 + 4x + 3$  is odd, even or neither. 3. Use finite differences to determine the type of polynomial function modeled by this data.  $x$  -3 -2 -1 0 1 2 3  $y$  109 13 -1 1 29 163 4. Sketch a possible graph for  $y = x^2 + 2x + 3(x - 1)$ . Label all x and y-intercepts clearly. 2 2 NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ 5. Determine an equation in factored form for this function. (Each grid line represents one unit.) 1 3 6. Without dividing, find the remainder when  $x^3 + 4x^2 + 8x + 8$  is divided by  $x - 3$ . 7. Factor: a.  $125x^3 + 8z^3$  b.  $4x^3 + 12x^2 + x + 3$  3 NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ 8. Solve: a.  $4x^3 + 2x^2 + 3x - 3$  b.  $2(x + 2)$  c.  $x^2 + 6x + 9$  16 b.  $x^3 + 19x^2 + 5x + 3$  4 x 2 x 6 9. Find two polynomials of different degrees that have 1, 2, 3 and -5 as zeros. 4 NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ 10. Determine the equation of the cubic function that has zeros at -2, 3 and 4 and  $f(5) = 28$ . 11. If you needed to predict the equation of a polynomial function from a graph and were only allowed to ask three questions about the function, what questions would you ask to help you the most? 12. Describe as much as you know about the graph of the polynomial  $y = a(x - 2)(x - 4)(x - 2)$  in as much detail as possible. 13. Aidan says that the graph of  $f(x) = x^3 + 6x^2 + 9x + 4$  has point symmetry. Kevin says it doesn't because  $f(x) \neq f(-x)$ . Who is correct? Explain your reasoning. 5 Doctors carry out pulmonary function tests to check how well a person's lungs work and identify any issues. The tests are noninvasive and provide measurements, such as lung capacity, volume, and gas exchange. These measurements may indicate how well the person is breathing or how well the lungs can bring oxygen to the rest of the body. Every individual may require a different type of test, and doctors may order one or more pulmonary function tests (PFT), depending on the underlying issue. Share on Pinterest Pulmonary function tests can help a doctor diagnose respiratory conditions, such as asthma or COPD. There are many reasons for pulmonary function tests. Doctors may order PFTs to help investigate or diagnose possible health conditions including: asthma, allergic chronic bronchitis, emphysema or COPD, lung cancer or pulmonary tumors, lung fibrosis, where scar tissue appears in the lung tissue, respiratory infection, sarcoidosis, which occurs when inflammatory cells begin growing in the lungs, scleroderma, which causes the connective tissues in the lungs to harden and become tight. Doctors may also order PFTs for people who work in hazardous environments or breathe in very fine particles in their workplace. This may include: sawdust, coal, asbestos, graphite, paint. Doctors may also use PFTs to monitor treatment or test the effectiveness of treatment for a chronic condition, such as asthma, bronchitis, or COPD. Doctors may also order PFTs to check a person's lung function before they have major surgery. This may be more important in people who are at increased risk, such as those with heart or lung problems and people who smoke. Spirometry is a test that measures the amount of air a person breathes in and out. Doctors may use this test when they want to know the person's lung size and the rate of airflow as they breathe. During a spirometry test, the person breathes through a tube attached to a computer. To ensure accurate results, a doctor will fit a mouthpiece and a nose clip on the person to prevent air from leaking. The person then breathes through their mouth as usual. After a few breaths, the doctor will ask the person to breathe in deeply and then expel the air as fast as possible. Lung volume tests are the best way to tell how much air a person's lungs can hold. The process is similar to spirometry, where the person first breathes normally and then vigorously. The person will sit in a small, sealed booth with clear walls for the test. Doctors can very accurately measure the amount of air the lungs displace by measuring the pressure in the booth. Share on Pinterest A pulse oximetry test involves clamping a device onto the body to measure blood oxygen levels. A pulse oximetry test measures the levels of oxygen in the blood, which can indicate how well the lungs function. There is no breathing involved. Doctors clamp a small device to an area where the skin is thinner, such as an earlobe or finger. Tiny beams of light then measure how much oxygen is in the blood. This test can help diagnose conditions, as well as determine how well certain treatments are working. The purpose of a lung diffusion capacity test is to see how well oxygen from the air a person breathes gets into the blood. For this test, a person sits and breathes normally through a tube. There is no need for vigorous breathing during this test. Doctors may also have the person breathe in various gases and monitor how well the body uses or gets rid of these gases. Doctors may also take a blood sample to check the levels of hemoglobin in the blood. When doctors are trying to find the cause of specific symptoms, such as shortness of breath, they might want to know how the lungs respond to exercise. The test involves breathing into a machine while walking on a treadmill or using a standing bike. The test measures how a person responds to exercise at their own pace. The average values change for each person. Doctors will take the results of the test and compare them to typical averages of people of a similar height, age, and sex. The American Thoracic Society state that a person's lungs grow until they reach their mid-20s when the lung function slowly starts to decline. Height and sex are the other factors. Taller people tend to have larger lungs and males tend to have larger lungs than females. Values that are abnormal in comparison to these other measurements may be a sign of an issue in the lungs. Doctors may order one or more tests to help make a diagnosis depending on the results. Individual results vary, and doctors will explain the results of each test with each person. The American Lung Association note that it is possible for a person with healthy lungs to have abnormal results. This is why doctors may run additional tests to confirm their findings before moving forward with a diagnosis. Preparation for a PFT may differ between individuals, but there are some general guidelines. Doctors frequently ask the person to stop taking certain medications before the test to get an accurate reading. The doctor will give each person specific instructions. Doctors may also ask the person to avoid certain foods or drinks that may make the results of a PFT inaccurate. Strenuous exercise may also open the airways and lead to an inaccurate reading. Avoid vigorous activity for at least a couple of hours before the test. Avoid eating or drinking too much before the test. A full stomach may leave less room for the lungs to expand, which could affect the results of a lung capacity test. Doctors may also ask the person to refrain from smoking or drinking alcohol before the test. People should avoid wearing tight clothing that may prevent the lungs from inhaling fully. Anyone who is taking an exercise test should wear loose fitting, comfortable clothing to take the test. While the tests are generally safe and noninvasive, there are some risks. Many tests require the person to breathe in and out vigorously. This may make some people feel dizzy, and there is a risk that they may faint. Anyone feeling dizzy or lightheaded during the test should tell the person administering the test. The tests may trigger asthma attacks in some people, especially if they do not take their medication in preparation for the test. There is minimal risk of germs spreading from people using the same lung function equipment. Technicians change the mouthpieces and other equipment after each use, and the machines have filters to help kill germs. The National Heart, Lung, and Blood Institute note that in tests that require doctors to take blood, some people may experience bleeding or infection in the area. PFTs are noninvasive tools that doctors use to check how well the lungs perform their functions. They are generally safe and are highly useful for diagnosing and monitoring certain conditions in the lungs and airways. People with specific conditions may have difficulty carrying out some of these tests. Always communicate with a doctor, ask questions, voice any concerns, and work together to find a solution.







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