

I'm not robot!

Transformations and Parent Functions

If $f(x)$ is the parent function,

$a f(b(x - c)) + d$ is the transformed function where

- a is the "stretch"
- b is the "compression"
- c is the "horizontal shift"
- d is the "vertical shift"

(Complicated examples)

Sketch the following functions:

$f(x) = 3(x + 7)^2 - 6$

$g(x) = -|2x + 5| - 4$

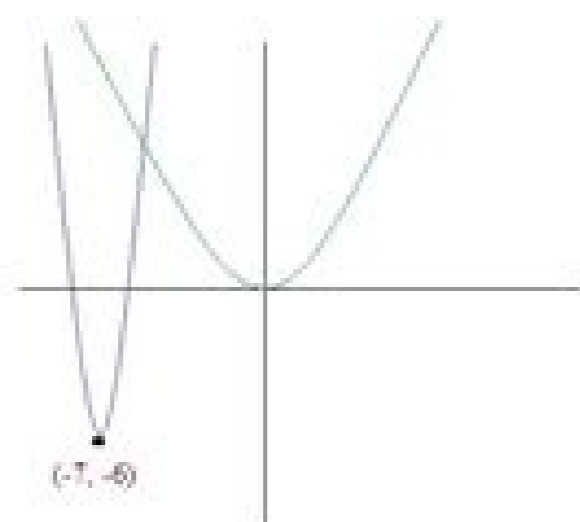
$h(x) = \frac{1}{2}\sqrt{x - 6} + 5$

Solutions:

$f(x) = 3(x + 7)^2 - 6$

- a = 3 stretch is 3
- b = 1 no compression
- c = 7 horizontal shift: left 7
- d = -6 vertical shift: down 6

parent function: x^2



To check your graph, select some points:

$(-7, -6)$ $3(-7 + 7)^2 - 6 = -6$
 $x = -7$ $f(-7) = -6$ ✓

y-intercept: find $f(0)$

$3(0 + 7)^2 - 6 = 141$

$(0, 141)$ ✓

x-intercepts: find $f(x) = 0$

$3(x + 7)^2 - 6 = 0$

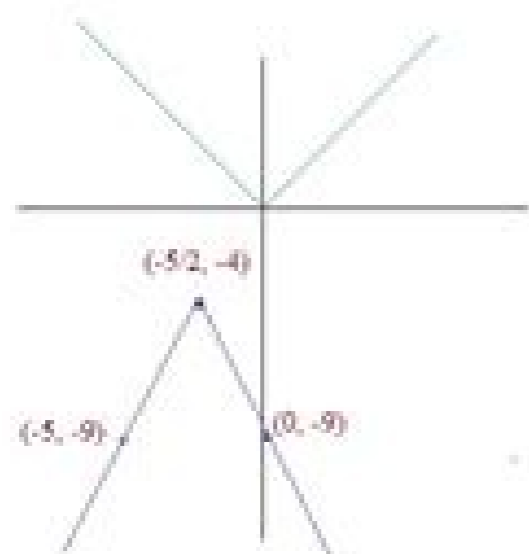
$(x + 7)^2 = 2$

$x = -7 \pm \sqrt{2}$ ✓

$g(x) = -|2x + 5| - 4$

- a = -1 change of direction
- b = 2 compression of 2
 (**the compression will alter the horizontal shift!)
- c = 5 horizontal shift is 5/2 to the left
- d = -4 vertical shift: down 4

parent function: $|x|$

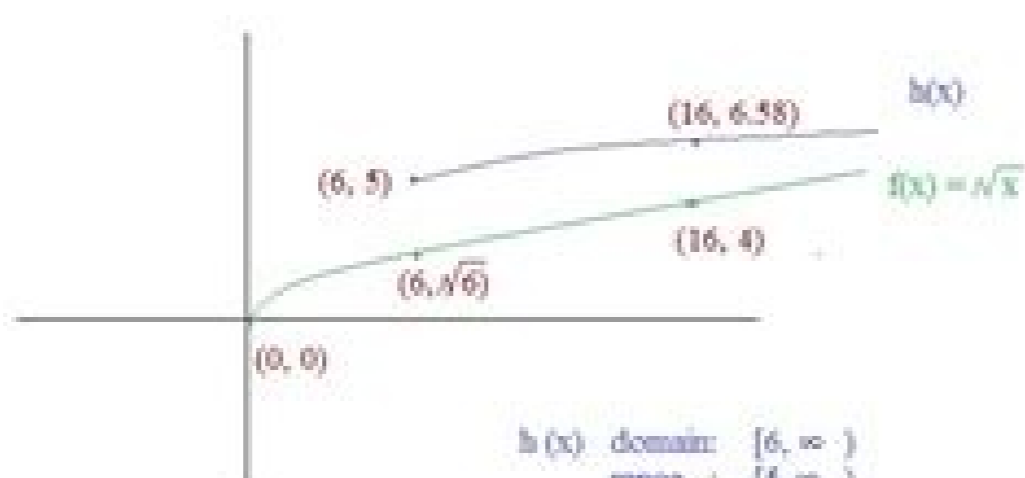


(Plug the points into the function to confirm the sketch)

$h(x) = \frac{1}{2}\sqrt{x - 6} + 5$

- a = 1/2 "shrink" ("flatter")
- b = 1 no horizontal compression
- c = -6 horizontal shift: right 6
- d = 5 vertical shift: up 5

parent function: \sqrt{x}



h(x) domain: $[6, \infty)$
 range: $[5, \infty)$

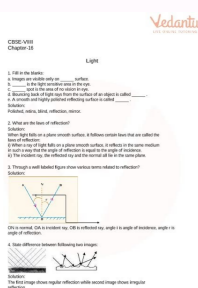
Name: _____ Score: _____

Write the New Coordinates

Sheet 1

Write the coordinates obtained after the given transformation.

- | | |
|---|--|
| <p>1) A(0, -3), B(0, -5), C(2, -5), D(3, -3)
 Translate 5 units up and 4 units right</p> <p>A': _____ B': _____
 C': _____ D': _____</p> | <p>2) P(-3, 3), Q(-2, 6), R(-5, 5), S(-6, 2)
 90° counterclockwise rotation about the origin</p> <p>P': _____ Q': _____
 R': _____ S': _____</p> |
| <p>3) K(5, 7), L(3, 7), M(3, 5), N(6, 4)
 Reflection across the line $y = 2$</p> <p>K': _____ L': _____
 M': _____ N': _____</p> | <p>4) D(-4, -5), E(0, -5), F(-1, -3), G(-3, -3)
 Translate 3 units left and 2 units down</p> <p>D': _____ E': _____
 F': _____ G': _____</p> |
| <p>5) U(-3, 6), V(-8, 1), W(-3, 1)
 180° rotation about the origin</p> <p>U': _____ V': _____
 W': _____</p> | <p>6) Q(5, -8), R(5, -4), S(2, -4), T(2, -8)
 Reflection across the x-axis</p> <p>Q': _____ R': _____
 S': _____ T': _____</p> |
| <p>7) J(0, -8), K(2, -6), L(-2, -8), M(2, -10)
 Translate 4 units left and 6 units up</p> <p>J': _____ K': _____
 L': _____ M': _____</p> | <p>8) B(6, 2), C(4, 5), D(0, 2)
 90° clockwise rotation about the origin</p> <p>B': _____ C': _____
 D': _____</p> |



Name: _____ Score: _____

Reflect the point

Sheet 1

Graph the new position of each point after the given reflection.

- | | |
|--|--|
| <p>1) Reflection across the line $y = 2$</p> | <p>2) Reflection across the y-axis</p> |
| <p>3) Reflection across the line $x = -1$</p> | <p>4) Reflection across the line $y = -3$</p> |
| <p>5) Reflection across the line $y = x$</p> | <p>6) Reflection across the line $x = 4$</p> |
| <p>7) Reflection across the line $x = 3$</p> | <p>8) Reflection across the line $y = -5$</p> |

Replication, Transcription, Translation Worksheet

Name _____ Period _____

Start at lapinescience.pbwiki.com. Follow the links on the sidebar

First go to PBS DNA Workshop

First unzip the DNA in the DNA replication simulation.

1. After you unzip the DNA, it says the molecule was unwound from a spool made of protein. What is that protein called (look in your notes from class or look in your book)?

2. About how many base pairs of DNA does one human cell's nucleus hold? Assume that this cell is a somatic (non-reproductive) cell with 46 chromosomes.

Next, go through the protein synthesis.

3. What was different between replication and transcription when matching up base pairs?

4. How long are most mRNA molecules?

5. What is the complementary set of bases for a codon called?

6. What carries in each amino acid?

7. Which three amino acids formed the polypeptide chain (protein) that you created?

Now, go back to the pbwiki site and click on the Learn Genetics site. Go to "DNA to Protein", and then to "Transcribe and Translate A Gene".

8. Look at the diagram on the bottom right. What happens during transcription? Fill in the blanks below:

_____ is copied from _____

The orient of the Polish division is mainly foreseen by two financing elements. A permanent controversy and the city's general fund. In addition to these two financing elements, the department aggressively seeks other sources of revenue financing through anti-criminal application, seizure and falsification, concession application application creative, supplementary service contracts and private support and. You can find a list of all positions and an online application on the Neogov website. Documents in terms of informations of insurance in the insurance. OH 43701 INSTRUCTIONS SCHOOL OF THE CITY OF ZANESVILLE The district is located in the beautiful hills of Southeast Ohio. Zanesville is the headquarters of Muskingum County. We have five last campuses campuses, with each building offering an inviting learning atmosphere, including green spaces and air conditioning. Our district has some of the best atllation installations. ZANESVILLE CITY SCHOOLS ADMINISTRATION CENTER 956 MOXALA AVENUE ZANESVILLE, OH 43701 P: 740-454-9751 F: 740-455-4325 WRITTEN TIME OF OPERATION OF THE WRITING: 8: 00-4: 30 *Wednesday: 8: 00-6: 00 T: (260) 693-9350. Sewer Department 9380 and State Road 205 Churubusco, in 46723 Operation hours: 7: 00-3: 00 The Polyan Department of Zanesville reformed the K9 officer. Columbus, Ohio (WSYX) à € "The Department of Polish of Zanesville announced the passage of one of his retired K9 Retired Officers. In a Facebook post, the department shared that Vesly died on Terraça, December 21st. Vesly was born on April 25, 2008, and retired on 17 Marà 2017. Change the training is the solution of active shooter training #1 and Program of preparation for all organizations. We provide based options, strategic response methods for active shooting events. Learn more and participateActive shooting training near you. It offers instructions and related details about the department of controversy of ZANESVILLE OHIO - FACILITY FOR USE Finding commercial information than ever. Main companies. The 100 GC's top hiring companies Main General Retail Contractors Main asphalt companies in the USA ... About the MPD of the Momible Polish Department is involved in over 200,000 police/civil interactions per year. Interactions with civilians occur in patrol, at the headquarters of Polish, in the districts of the policy, by telephone. In schools, serving requests for service, with members of the Community Consulting Panel, in Planned Presentation, S of 911 calls and many other ways. (Telephone: 419-568-9080) Founded in 1848, the Waynesfield Police Department has a rich story of keeping residents in security. The department has been under the leadership of chief Nathan Motter since October 1, 2009. Before the boss motter was appointed to the highest position in the department, he served as an assistant ... 1:00 ZANESVILLE - Mayor Don Mason appointed Doug Merry as an interim director of the city's public security. He is replacing Keane Toney, who resigned on February 21, citing reasons of health. In your ... Department of Poral de Zanesville, the K9 officer dies. Columbus, Ohio (WSYX) - The Department of Poly of Zanesville announced the death of one of his retired K9 officers on Thursday. In a Facebook post, the department shared that Vesly passed away in Terà -Plurest, December 21st. Vesly was born on April 25, 2008 and retired on the 17th, 2017. The Brownsburg Police Department provides 24 -hour protection for residents of the Brownsburg community. Explore our site to find more information about the department, as well as our installation Last generation training in Brownsburg. Notifications. Programs. 335 W 3rd Street, Dayton, Ohio 45402 Emergency: 911 non-emergency: 937-333-COPS (2677) email usThe County Sheriff Department is now accepting formalists of interest to employment for the position of the Sheriff's delegate/police officer. Those interested should complete the "employment interest form" of a piano and return it to the Sheriff Department within 3:30 pm, local time, May 27, 2022. About the MPD mother department involves more than 200,000 police/civilian interactions per year. Interactions with civilians occur in patrolling, at the headquarters of Polish, at the squads of contained, by telephone, in schools, responding to calls of service, with members of the communications advisory panel, in presentation presentation, through s calls for emergency and many other forms. Department of Poly of Zanesville in Brownsville, YP.com. See comments, photos, direction, no telephone and more for the best policy departments in Brownsville, Oh. Search the main learning officer work in Zanesville, oh with company classifications and salons. 23 vacancies for the Learning Chief in Zanesville. Muskingum County Records receives Ohrab's performance prose. May 13, 2022 May 13, 2022 Kajeza Hawkins 0. Day of the career of venacles at the Primary School of Nashport. ZANESVILLE, Ohio - Today Zanesville was the host of a Tree City regional program. The event was held at the Welcome Center of Noon AtÀ © 3 with speakers from all over the city and state. Job opportunities. The city of Gahanna is an equal opportunity employer and is always interested in identifying highly qualified candidates to better serve the community. The Human Resources Department of the city of Gahanna is only accepts online work applications. For those without domain computers, the city provides access to a computer for application ... Official Police Jobs in Zanesville, OH 14 Most Relevant Works 14 Jobs 3.5 Genesis Health Poor Care Operations Zanesville, OH \$ 30,408 - \$ 66,567 (Glassdoor Est.) 30D+ should have a vaming Ohio driver license. Demonstrates the ability to have problems that they are solved. resolved. ensure the safety of all employees, patients and..... Request Form of Public Registry of the Department of 3.5Police. We're here to serve. Wilmington Police Department recognizes a shared responsibility and connection between the police and the community in making Wilmington a safer and more livable city. To provide the best possible service, we need your entry. Mar 04, 2021 - Zanesville police make headlines Monday by shooting that traumatized neighborhood. The Zanesville Police Department executed another search warrant on Wednesday afternoon in connection with the shooting of a 56-year-old man who had just returned home from taking his children to school. Robert Gladden was shot at the entrance of his house in 707 Bates ... Zanesville Police Department Nov 1980 - Feb 2020 39 years 4 months. Going to retire on January 29, 2018! Paramedical Ambulance Zanesville (Byrd) 1972 - 1984 12 years. Education. Missing from: Zanesville, Ohio losing since: 1/30/1985 Missing: 38 Current age: 75 Contact Zanesville Police Department at 740-455-0700. Shelby County Sheriff's Department is now accepting Job Interest Forms for the sheriff's deputy/police position. Those interested must complete the "Employment Interest Form" of a page and return it to the Sheriff's Department at a maximum of 3:30 p.m., local time, 27 May 2022. Fridericktown Police Department. 182 South Main Street, Fredericktown, Ohio 43019; EMERGENCES: Turn 9-1-1-1 Non-Emergencies: (740) 694-9222 Police Despatch: (740) 397-3333 Fax: (740) 694-9333Police Department Public Records Request Form. Wilmington Police Department recognizes a shared responsibility and connection between the police and the community in making Wilmington a safer and more livable city. To provide the bestPossible, we need your entry. Texas City Police Academy. 1004 9th Avenue North. Texas City, TX 77590-7407. Phone: (409) (409) See the map: Google Maps. Contact: Melissa Schanzer. Gus George Law Enforcement Academy. 1521 Eugene Heiman Circle. Richmond, TX 77469. Phase III - Colombo Oral Police Examination (COPE) - this part of the exam is video-based and is designed to evaluate the problem-solving skills of a candidate and interpersonal relations skills. Information sessions will be offered by the Civil Service before the test, and we strongly insist that you participate in one of these sessions. CENTER COMMANDED BY SGT. CHARLES HILLMAN OFFICE: 330-729-2076 For emergencies called 9-1-1-1 For non-emergency police response called 330-726-4144 In 2013 we received 39,037 service calls. The dispatch center has state-of-the-art technical equipment designed to help us provide citizens and visitors to Boardman Township with a safe place to live, play, [...] The Sheriff's Department of Shelby County is now accepting Job Interest Forms for the sheriff's position/presidential police officer. Those interested must complete the "Employment Interest Form" of a page and return it to the Sheriff's Department at a maximum of 3:30 p.m., local time, 27 May 2022. Zanesville Police Department. Zanesville Police Department offers 56K residents of Muskingum County digital printing card services located in Zanesville City. This site complements our Online Live Scan Fund Verification service network in the state of Ohio. The budget of the Police Division is mainly provided by two elements of funding. A permanent police fee and the general fund of the city. In addition to these two elements of funding, the department aggressively seeks other sources of revenue financing through anti-crime application, seizure and forgery, application of creative concession, contracts of // / tnmtrapeD eciloP ytiC ellivsenaz arap enofelet ed orem^An e o\$AerdnE. noitamrofni tcatnoC liaj ytiC ellivsenaz / tnmtrapeD eciloP ytiC ellivsenaz. e seralucitrap ed oiopa e seratnemelpus Cidade's prism, a Polyan department in South Street, Zanesville Oh. Name Department of Poral Poral of Zanesville / Zanesville City Chain Address 332 South Street Zanesville, Ohio, 43701 Phone 740-455-0700 335 W 3rd Street, Dayton, Ohio 45402 Emergency: 911 Nã E o Emergency: 937-333- COPS (2677) The YSU POLICY DEPARTMENT warns the university community and surrounding areas for incidents using the penguin alert system. If you have any information on these alerts, any other crime (s) or about the suspects described on the alerts, contact YSU PD at: (330) 941- 3527. Police Jobs in Zanesville, OH 14 most relevant jobs 14 Jobs 3.5 Genesis Healthcare System Operations of Polyan Operations Zanesville, OH \$ 30,408 - US \$ 66,567 (Glassdoor est.) 30D+ should have a driver license Ohio. Demonstrates the ability to have problems that they are solved. It helps to ensure the security of all employees, patients and aferences 3.5 job opportunities. The city of Gahanna is an employer of equal opportunities and is always interested in identifying highly qualified candidates to better serve the community. The Human Resources Department of the city of Gahanna accepts only on -line employment applications. For those without a domain computers, the city provides access to a computer for application ... Suburban used for sale Richmond Va Willard Police Department "dedicated to providing a safer community" about us. Software. Divisions. Online reports. Formulas. Contact List 631 S. Myrtle Ave Willard, Ohio 44890 Emergency 911 No Emergency 419-933-2561 Fax 419-935-2804 Tip Line 419-933-6110 ... Commercial work in Iowa24 East Main Street Zanesville, Ohio 43701. Phone. 740-454-0492may 01, 2017 À - ZANESVILLE is a city located in Muskingum County, Ohio, founded in 1797 and named after Ebenezer Zane (1747-1811), who directed the construction of the trace of Zane, a border road extending from Belmont County to Adams County. The population of Zanesville from theThe census was 25,487. Muskingum County. REGORDER. Online registration system. Welcome to the Muskingum County online registration system. The use of this website constitutes acceptance of the terms and conditions contained in our notice. This site will allow you to search the Muskingum County Recorder records online. A2C A2C

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