
 for a onetime set－up fee and $\$ 23$ for each printed jersey．Which
expression represents the total cost of $x$ number of jerseys for the 1 Bryan＇s hockey team is purchasing jerseys．The company charges $\$ 250$





ALGEBRA I
The possession or use of any communications device is strictly prohibited when taking
this examination．If you have or use any communications device，no matter how briefly，
your examination will be invalidated and no score will be calculated for you．
Print your name and the name of your school on the lines above．
A separate answer sheet for Part I has been provided to you．Follow the instructions from the
proctor for completing the student information on your answer sheet．
This examination has four parts，with a total of 37 questions．You must answer all questions in this
examination．Record your answers to the Part I multiple－choice questions on the separate answer
sheet．Write your answers to the questions in Parts II，III，and IV directly in this booklet．All work
should be written in pen，except for graphs and drawings，which should be done in pencil．Clearly
indicate the necessary steps，including appropriate formula substitutions，diagrams，graphs，charts，
etc．Utilize the information provided for each question to determine your answer．Note that diagrams
are not necessarily drawn to scale．
The formulas that you may need to answer some questions in this examination are found at the
end of the examination．This sheet is perforated so you may remove it from this booklet．
Scrap paper is not permitted for any part of this examination，but you may use the blank spaces
in this booklet as scrap paper．A perforated sheet of scrap graph paper is provided at the end of this
booklet for any question for which graphing may be helpful but is not required．You may remove
this sheet from this booklet．Any work done on this sheet of scrap graph paper will not be scored．
When you have completed the examination，you must sign the statement printed at the end
of the answer sheet，indicating that you had no unlawful knowledge of the questions or answers
prior to the examination and that you have neither given nor received assistance in answering any of
the questions during the examination．Your answer sheet cannot be accepted if you fail to sign this
declaration．
Notice ．．．
A graphing calculator and a straightedge（ruler）must be available for you to use while
taking this examination．
DO NOT OPEN THIS EXAMINATION BOOKLET UNTIL THE SIGNAL IS GIVEN．
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## ＊y9ヨפา＊

I VygヨuTM


| 6 A survey was given to 12th-grade students of West High School to |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| determine the location for the senior class trip. The results are shown |  |  |  |  |  |
| in the table below. |  |  |  |  |  |
| Niagara Falls |  |  |  | Darien Lake | New York City |
| Boys 56 74 <br> Girls 71 92 |  |  |  |  |  |
| To the nearest percent, what percent of the boys chose Niagara Falls? |  |  |  |  |  |
| $\begin{array}{ll}\text { (1) } 12 & \text { (3) } 44 \\ \text { (2) } 24 & \text { (4) } 56\end{array}$ |  |  |  |  |  |

(4) 7 units to the left of the vertex of $f(x)$ 5 Josh graphed the function $f(x)=-3(x-1)^{2}+2$. He then graphed
the function $g(x)=-3(x-1)^{2}-5$ on the same coordinate plane.
The vertex of $g(x)$ is
(1) 7 units below the vertex of $f(x)$
(2) 7 units above the vertex of $f(x)$
(3) 7 units to the right of the vertex of $f(x)$

$$
\begin{array}{ll}
\text { (2) } 24 & \text { (4) } 56
\end{array}
$$




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## 

17 The quadratic functions $r(x)$ and $q(x)$ are given below.
Which interval represents the child constantly moving closer to home?

| - | $\bigcirc$ | $\pm$ | $\stackrel{1}{\sim}$ | $\stackrel{\text { ¢ }}{ }$ | $\pm$ |  | $\times$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ | $\stackrel{1}{4}$ | $\stackrel{1}{v}$ | $\stackrel{1}{\square}$ | $\stackrel{1}{\square}$ |  |  | $\frac{\square}{x}$ |

Use this space for
computations.
 [7]



| [8] 61 |
| :---: |
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[^2]




$\square$






III ${ }^{7 \times V_{d}}$










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| $\begin{gathered} \underset{\sim}{1} \\ \omega 1 \\ \underset{\sim}{\infty} \end{gathered}$ | $\begin{gathered} \stackrel{+}{11} \\ \omega 1- \\ \stackrel{1}{6} \\ \stackrel{1}{2} \end{gathered}$ | $\begin{gathered} < \\ \\| \\ \omega \\| \\ \cos _{0} \end{gathered}$ | $\begin{aligned} & \gtrless \\ & \\| \\ & 4 \\ & \text { tio } \\ & \text { in } \end{aligned}$ | $\begin{aligned} & \stackrel{1}{\\|} \\ & \stackrel{\sigma}{2} \end{aligned}$ | $\begin{gathered} 0 \\ \\| \\ 4 \\ 1 \\ 0 \\ 0 \\ 1 \\ 1 \\ 0 \\ 9 \end{gathered}$ | $\begin{aligned} & \text { in } \\ & \text { II }_{3} \\ & \text { g } \end{aligned}$ | $\begin{aligned} & \pm \\ & I \\ & \stackrel{\sigma}{2} \end{aligned}$ | $\begin{gathered} \Delta \\ \\| \\ N 1- \\ \stackrel{y}{2} \end{gathered}$ |

1 cup $=8$ fluid ounces
1 pint $=2$ cups
1 quart $=2$ pints
1 gallon $=4$ quarts
1 gallon $=3.785$ liters
1 liter $=0.264$ gallon
1 liter $=1000$ cubic ce

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[^0]:    

    For which value of $x$ is $f(x) \neq g(x)$ ?
    $\begin{array}{ll}\text { (1) }-1 & \text { (3) } 3 \\ \text { (2) } 2 & \text { (4) }-2\end{array}$
    15 What is the range of the box plot shown below?
    $\begin{array}{ll}\text { (1) } 7 & \text { (4) } 4 \\ \text { (2) } 2 & \text { (4) } 3\end{array}$
    $\begin{array}{ll}\text { Which expression is not equivalent to } 2 x^{2}+10 x+12 \text { ? } \\ \text { (1) }(2 x+4)(x+3) \\ \text { (2) }(2 x+6)(x+2) & \text { (3) }(2 x+3)(x+4) \\ \text { (4) } 2(x+3)(x+2)\end{array}$

[^1]:    $\infty$
    

[^2]:    
     indicate the necessary steps, including appropriate formula substitutions, diagrams, graphs,
    

