

Ø Section 2, Module 1: Math Annotate Mark for Review [ The area of Abraham's square-shaped cornfield equals 196 acres. The length of each side of Jennifer's square-shaped cornfield equals half of the corresponding side length of Abraham's cornfield. Which choice represents the area of Jennifer's cornfield, in acres? (A)  $196 \times \frac{1}{2}$ (B)  $196 \times 50$ (c)  $196 \times (\frac{1}{2})^2$ (D)  $196^2 \times (\frac{1}{2})^2$ **TEST@QUBE** Section 2, Module 1: Math 6 Mark for Review Hours at Gym 1.7 2.15 The box plot represents the distribution of time spent at the gym on a certain day, in hours, of  $20\ \text{Monster}$ Gym members. Which of the following interpretations of the box plot is true? (A) At least 5 gym members spent more than 4.1 hours at the gym. (B) The mean hours spent at the gym is 2.15. (C) The median hours spent at the gym is 2.15.  $(\widehat{\hspace{1pt} extsf{D}})$  At least 15 gym members spent more

than  $1.15\,\mathrm{hours}$  at the gym.

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**TEST@QUBE** 

Ø Section 2, Module 1: Math Mark for Review [] 11 10 f(x)8 6 4 2 III 0 6 8 10 The figure above shows the graph of the quadratic function y = f(x) on the xy-plane. How many IV different real root(s) does the quadratic equation f(x) = 0 have? (A) 0 (B) 1 (c) 2 V (D) Infinitely many V١ VII

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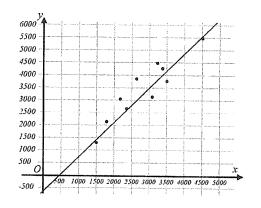
Mark for Review [

Student	Credits
А	11
В	14
С	13
D	18
E	12
F	10
G	13

Seven students A, B, C, D, E, F, and G take credit courses at Wharton High School. The total credits each student takes this semester are shown in the table above. What is the median value of the seven students' credits at Wharton High School?



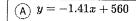
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The scatterplot above shows the statistics of major cities in data set P, where the x-values represent the land area (in square kilometers) and the yvalues represent the population (in thousands). Which choice most appropriately models the line of best fit for data set P?



II





(B) 
$$y = -1.41x - 560$$

$$\bigcirc y = 1.41x + 560$$

(D) 
$$y = 1.41x - 560$$



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Annotate : Section 2, Module 1: Math Section 2, Module 1: Math 15 Mark for Review ☐ 14 Mark for Review [ II A (2, 2) Ш Among the internal angles in right triangle ABC. angle B has the largest value. If angle A equals  $39\,^\circ$ , what is the value, in degrees, of angle C? 0 What is the area of a circle whose center is A(2,2)and is tangent to both x-axis and y-axis? IV TEST锄QUBE Question 15 of 22 >  $\bigcirc$  $\widehat{(A)}$   $\pi$  $\stackrel{\textstyle \bigcirc}{\mathbb{B}}$   $2\pi$ (B) <del>(c)</del> Section 2, Module 1: Math  $\bigcirc$   $4\pi$ 16 Mark for Review **(b)** (D) 8π ٧ Which expression is equivalent to  $x(xy)^3 imes rac{x}{y}$ where  $oldsymbol{x}$  and  $oldsymbol{y}$  are different positive real numbers?  $(A) x^{\overline{5}y^2}$ <del>(A)</del>  $(B) x^4y^3$ <del>(B)</del> ۷I  $\bigcirc$   $x^3y^{-2}$ <del>(c)</del>  $(\widehat{D}) (xy)^3$ <del>(D)</del> VII

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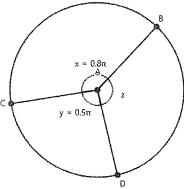


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Points B, C, and D are on a circle with center A. Angle BAC (angle x) equals  $0.8\pi$  and angle CAD(angle y) equals  $0.5\pi$ , each in radians. What is the measure of the smaller angle BAD, in radians? (The picture is not drawn to scale.)

(A) 2π

<del>(D)</del>

- (B)  $1.5\pi$
- $(c) 0.7\pi$
- $\bigcirc$  0.5 $\pi$

 $(\widehat{A})$  x = 3

or x = 9

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What is the correct set of solutions for equation  $x^2 - 12x + 27 = 0?$ 

- (B) x = -3or x = 9
- (c) x=3or x = -9
- <del>(D)</del> x = -9

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**TEST@QUBE** 

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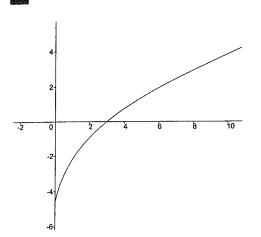
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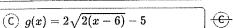
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A part of the graph of  $f(x)=2\sqrt{2x}-5$  on the xy-plane is shown above. Each point of the graph of f(x) is translated by 6 to the positive x-direction, forming a new graph identical to the graph of g(x). Which equation defines g(x)?

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$$(A) g(x) = 2\sqrt{12x} - 5$$



 $\widehat{(\mathsf{D})} \ g(x) = 2\sqrt{2x} - 11$ 

V١

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 $f(x)=rac{1}{x-11}$  What is the value of x, if  $f(x)=rac{1}{35}$  ?

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<del>(B)</del>

<del>(D)</del>

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In a city, 60% of the population owns a car, and 40% of those car owners also own a motorcycle. If the city has a population of 50,000, how many people own both a car and a motorcycle?

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Table

Suit	Numerals	Faces
Spades	1, 2, 3, 4, 5, 6, 7, 8, 9, and 10	Jack, Queen, and King
Hearts	1, 2, 3, 4, 5, 6, 7, 8, 9, and 10	Jack, Queen, and King
Clubs	1, 2, 3, 4, 5, 6, 7, 8, 9, and 10	Jack, Queen, and King
Diamonds	1, 2, 3, 4, 5, 6, 7, 8, 9, and 10	Jack, Queen, and King

A standard card deck contains 52 unique cards. On each card, either a numeral or a face is denoted as shown in the table. (Aces are considered as 1.) Julia randomly picked two different numeral cards from a deck and placed one on the left and one on the right. What is the chance of the numeral denoted on the card Julia placed on the left is exactly two times bigger than the one on the right?

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B 16/40×39	<u>B</u>
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