

Question 2

Not yet answered

Marked out of 1.00

Flag question

What is the cardinality of the following set. $A = \{\emptyset, \{\emptyset\}, \{\emptyset, \{\emptyset\}\}$

- ☐ a. 3
- ☐ b. 2
- ☐ c. 5
- ☐ d. 4

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:57:22

Previous page

Next page



PREVIOUS ACTIVITY
Mock Exam



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 3

Not yet answered

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[Flag question](#)Which of the following is the equation of a circle with center (2, 0) and a radius with endpoint (5, $\sqrt{7}$) ?

- ☒ a. $(x - 2)^2 + y^2 = 16$
- ☐ b. $(x + 2)^2 + y^2 = 4$
- ☐ c. $(x - 2)^2 + y^2 = 4$
- ☐ d. $(x + 2)^2 + y^2 = 16$

[Clear my choice](#)

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:54:30

[Previous page](#)[Next page](#)



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 4

Not yet answered

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[Flag question](#)Suppose a number x is chosen from the numbers -2, -1, 0, 1, 2. What will be the probability of $x^2 > 0$?

- ☐ a. 4/5
- ☐ b. 3/5
- ☐ c. 2/3
- ☐ d. 1/5

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:54:11

[Previous page](#)[Next page](#)

Question 5

Not yet answered

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 Flag question

According to the given set of alphabet $\Sigma = \{a, e, o, i, u\}$ how many unique word which its length 5 you will produce.

- ☐ a. 2225
- ☐ b. 3125
- ☐ c. ∞
- ☐ d. 25
- ☐ e. 125
- ☐ f. 225

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left **0:52:36**

Previous page

Next page



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

ADDIS ABABA SCIENCE & TECHNOLOGY UNIVERSITY

Home

Dashboard

Events

My Courses

This course

Home

Colleges

Courses

Open Courseware

Hide blocks

Standard view

My courses > SWEN2014 > Maths Exam > Maths Exam

Question 6

Not yet answered

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If H is a subgroup of G and $a, b \in G$. Then $\forall aH=bH$ if and only if

- ☐ a. $\forall a^{-1}b \in H$
- ☐ b. $\forall ab \in H$
- ☐ c. $\forall a^{-1}b^{-1} \in H$
- ☐ d. $\forall ab^{-1} \in H$

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:48:19

Previous page

Next page



Question 7

Not yet
answered

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question

Abebe ran a 12-kilometers race at an average speed of 8 kilometer per hour. If Kebede ran the same race at an average speed of 6 kilometer per hour, how many minutes longer did Kebede take to complete the race than did Abebe?

- ☐ a. 16
- ☐ b. 24
- ☐ c. 30
- ☐ d. 12

Previous page

Next page

Question 7

Not yet answered

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Flag question

Abebe ran a 12-kilometers race at an average speed of 8 kilometer per hour. If Kebede ran the same race at an average speed of 6 kilometer per hour, how many minutes longer did Kebede take to complete the race than did Abebe?

- ☐ a. 16
- ☐ b. 24
- ☒ c. 30
- ☐ d. 12

[Clear my choice](#)**Quiz navigation**

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)Time left **0:41:26**[Previous page](#)[Next page](#)

PREVIOUS ACTIVITY
Mock Exam

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam**Question 8**

Not yet answered

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Solving the equations $\frac{1}{3}(x + y) = \frac{1}{5}(x - y)$, $3x + 11y = 4$ gives

- ☐ a. $x = -4$, $y = 16$
- ☐ b. $x = 1$, $y = 4$
- ☐ c. $x = 16$, $y = -4$
- ☐ d. $x = 5$, $y = 6$

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)Time left **0:40:48**[Previous page](#)[Next page](#)



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 8

Not yet answered

Marked out of 1.00

[Flag question](#)Solving the equations $\frac{1}{3}(x + y) = \frac{1}{5}(x - y)$, $3x + 11y = 4$ gives

- ☐ a. $x = -4$, $y = 16$
- ☐ b. $x = 1$, $y = 4$
- ☐ c. $x = 16$, $y = -4$
- ☐ d. $x = 5$, $y = 6$

≡ Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:32:27

[Previous page](#)[Next page](#)

To save on helium costs, a balloon is inflated with both helium and nitrogen gas. Between the two gases, the balloon can be inflated up to 8 liters in volume. The density of helium is 0.20 grams per liter, and the density of nitrogen is 1.30 grams per liter. The balloon must be filled so that the volumetric average density of the balloon is lower than that of air, which has a density of 1.20 grams per liter. Which of the following system of inequalities best describes how the balloon will be filled, if x represents the number of liters of helium and y represents the number of liters of nitrogen?

☐ a.
$$\begin{cases} x + y \leq 8 \\ 0.20\left(\frac{x}{x+y}\right) + 1.30\left(\frac{y}{x+y}\right) < 1.20 \end{cases}$$

☐ b.
$$\begin{cases} x + y > 8 \\ 20x + 130y > 120 \end{cases}$$

☐ c.
$$\begin{cases} x + y = 8 \\ \frac{0.2x + 1.30y}{2} < 1.20 \end{cases}$$

☐ d.
$$\begin{cases} x + y \leq 8 \\ 0.20x + 1.30y < 1.20 \end{cases}$$

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:31:26



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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 10

Not yet answered

Marked out of 1.00

[Flag question](#)If the standard deviation of x , y , z is p then the standard deviation of $3x + 5$, $3y + 5$, $3z + 5$ is:

- ☐ a. $3p$
- ☒ b. None
- ☐ c. $p + 5$
- ☐ d. $9p + 15$
- ☐ e. $3p + 5$

[Clear my choice](#)

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:27:52

[Previous page](#)[Next page](#)



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 11

Not yet answered

Marked out of 1.00

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The Cartesian product of the (Set Y) x (Set X) is equal to the Cartesian product of (Set X) x (Set Y)?

- ☐ a. Yes
- ☐ b. No
- ☐ c. None of the above

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:27:10

[Previous page](#)[Next page](#)

SWEN2014



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#) [Dashboard](#) [Events](#) [My Courses](#) [This course](#) [Home](#) [Colleges](#) [Courses](#) [Open Courseware](#) [Hide blocks](#) [Standard view](#)

[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 12

Not yet answered

Marked out of 1.00

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The base of triangle T is 40 percent less than the length of rectangle R. The height of triangle T is 50 percent greater than the width of rectangle R. The area of triangle T is what percent of the area of rectangle R ?

- ☐ a. 90
- ☐ b. 110
- ☐ c. 45
- ☐ d. 10

Quiz navigation

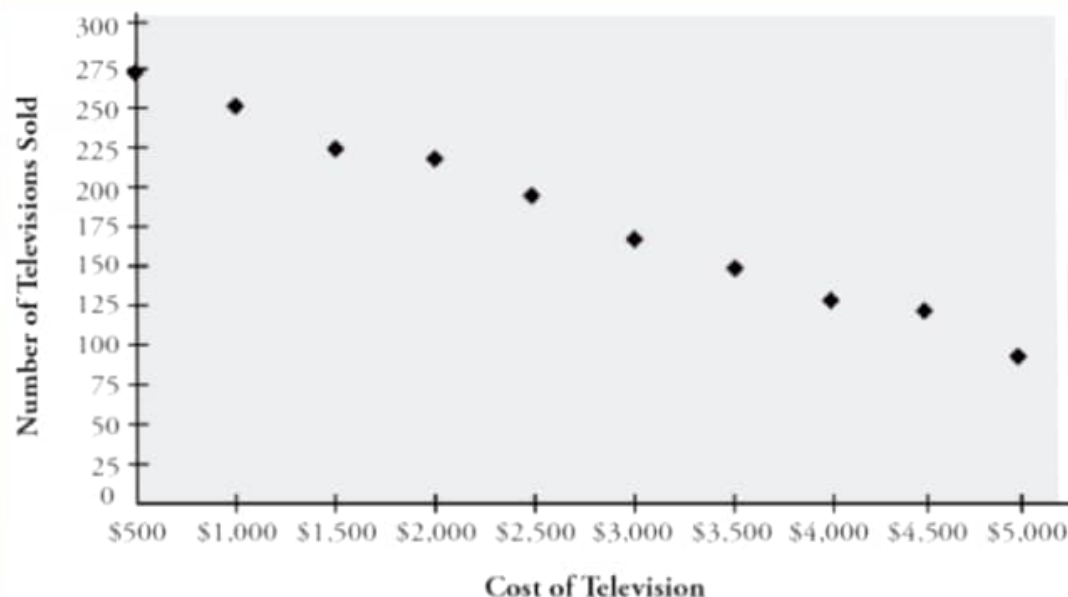
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Question 13

Not yet answered

Marked out of 1.00

Flag question



A certain store sells televisions ranging in price from \$500 to \$5,000 in increments of \$500. The graph above shows the total number of televisions sold at each price during the last 12 months. Approximately how much more revenue did the store collect from the televisions it sold priced at \$3,500 than it did from the televisions it sold priced at \$1,000?

- ☐ a. \$275,000
- ☐ b. \$250,000
- ☐ c. \$350,000
- ☐ d. \$175,000

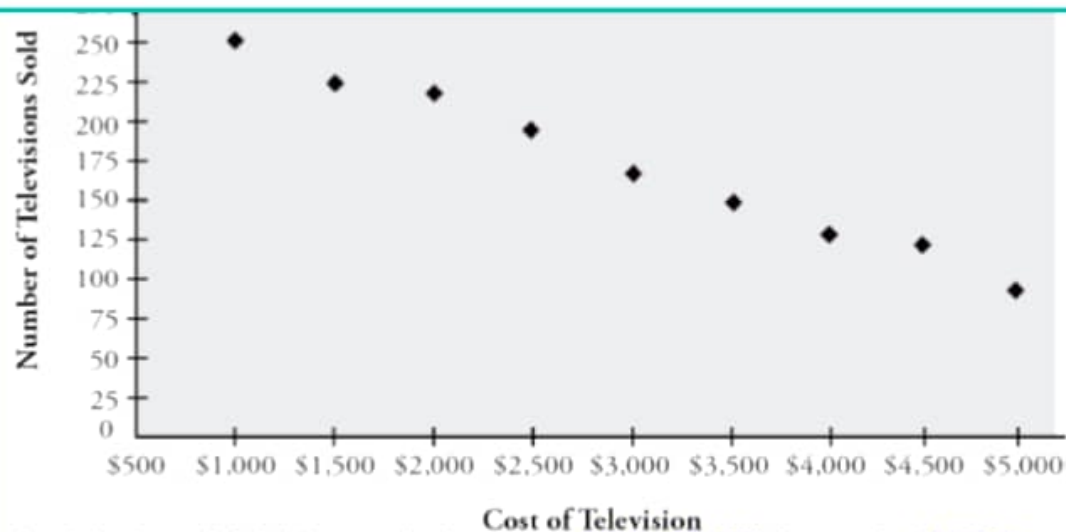
Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:22:52

answered
 Marked out of 1.00
 Flag question



A certain store sells televisions ranging in price from \$500 to \$5,000 in increments of \$500. The graph above shows the total number of televisions sold at each price during the last 12 months. Approximately how much more revenue did the store collect from the televisions it sold priced at \$3,500 than it did from the televisions it sold priced at \$1,000?

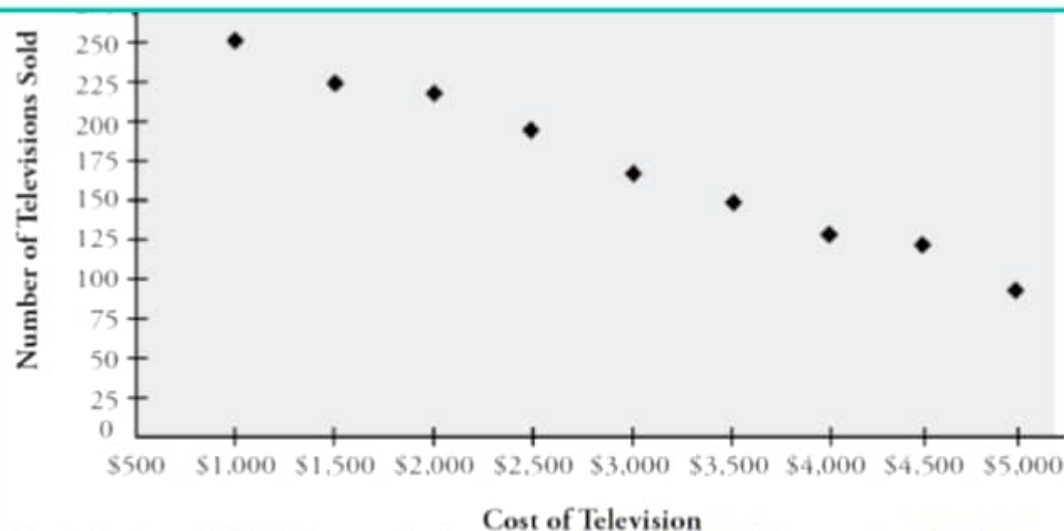
- ☐ a. \$275,000
- ☐ b. \$250,000
- ☐ c. \$350,000
- ☐ d. \$175,000
- ☐ e. \$375,000

8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:22:49

answered
 Marked out of 1.00
 Flag question



A certain store sells televisions ranging in price from \$500 to \$5,000 in increments of \$500. The graph above shows the total number of televisions sold at each price during the last 12 months. Approximately how much more revenue did the store collect from the televisions it sold priced at \$3,500 than it did from the televisions it sold priced at \$1,000?

- ☐ a. \$275,000
- ☐ b. \$250,000
- ☐ c. \$350,000
- ☐ d. \$175,000
- ☐ e. \$375,000

8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:22:50



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 14

Not yet answered

Marked out of 1.00

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Two people X and Y apply for a job in a company. The probability of the selection of X is $\frac{2}{5}$, and Y is $\frac{4}{7}$. What is the probability that both of them get selected?

- ☐ a. $\frac{1}{6}$
- ☐ b. $\frac{8}{35}$
- ☐ c. $\frac{27}{35}$
- ☐ d. $\frac{3}{35}$

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:20:24

[Previous page](#)[Next page](#)



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam**Question 15**

Not yet answered

Marked out of 1.00

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Nails are sold in 8-ounce and 20-ounce boxes. If 50 boxes of nails were sold and the total weight of the nails sold was less than 600 ounces, what is the greatest possible number of 20-ounce boxes that could have been sold?

- ☐ a. 17
- ☐ b. 16
- ☐ c. 33
- ☐ d. 25

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:19:13

[Previous page](#)[Next page](#)

Question 16Not yet
answeredMarked out of
1.00Flag
question

During a special sale at a furniture store, Sara bought a floor lamp at a 10% discount. She paid a total of t birr, which included the discounted price of the floor lamp and a 6% sales tax on the discounted price. In terms of t , what was the original price of the floor lamp?

- ☐ a. $0.96t$
- ☐ b. $(0.9)(1.06)t$
- ☐ c. $t/0.96$
- ☐ d. $t/(0.9)(1.06)$

Previous page

Next page

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:15:48



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 17

Not yet answered

Marked out of 1.00

[Flag question](#)

How many injections are defined from set A to set B if set A has 4 elements and set B has 5 elements?

- ☐ a. 64
- ☐ b. 144
- ☐ c. 20
- ☐ d. 24
- ☐ e. 120

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:13:12

[Previous page](#)[Next page](#)



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 18

Not yet answered

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If the object A is chosen in m ways and B in n ways then either A or B is chosen in ____ Ways

- ☐ a. $2mn$
- ☐ b. $m - n$
- ☐ c. m/n
- ☐ d. mn
- ☐ e. $m + n$

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:11:53

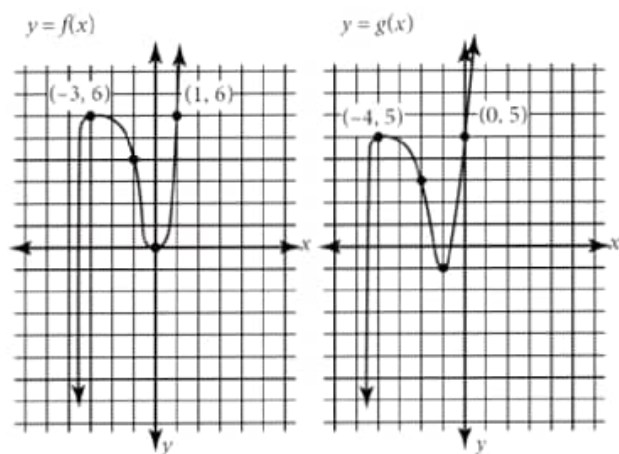
[Previous page](#)[Next page](#)

Question 19

Not yet answered

Marked out of 1.00

Flag question



The figures above show the graphs of the functions f and g . The function f is defined by $f(x) = 2x^3 + 5x^2 - x$. The function g is defined by $g(x) = f(x - h) - k$, where h and k are constants. What is the value of hk ?

- ☐ a. -2
- ☐ b. 0
- ☐ c. -1
- ☒ d. 1

Clear my choice

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

Time left 0:09:23



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)

[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 20

Not yet answered

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[Flag question](#)

A paper airplane is thrown from the top of a hill and travels horizontally at 9 feet per second. If the plane descends 1 foot for every 3 feet travelled horizontally, how many feet has the plane descended after 5 seconds of travel?

- ☐ a. 3
- ☐ b. 15
- ☐ c. 10
- ☐ d. 25
- ☐ e. 20

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

[Finish attempt ...](#)

Time left 0:09:17

[Previous page](#)[Next page](#)

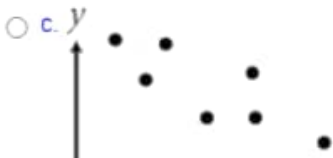
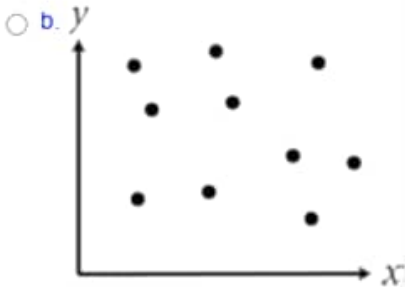
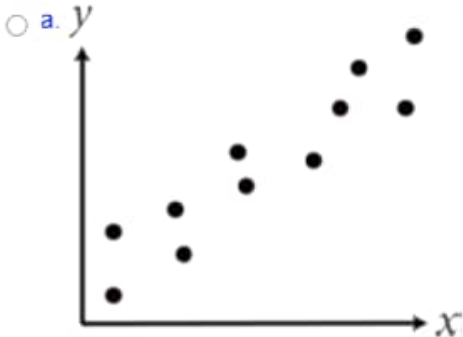
Question 21

Not yet answered

Marked out of 1.00

Flag question

Which of the following graphs shows a strong positive association between x and y ?



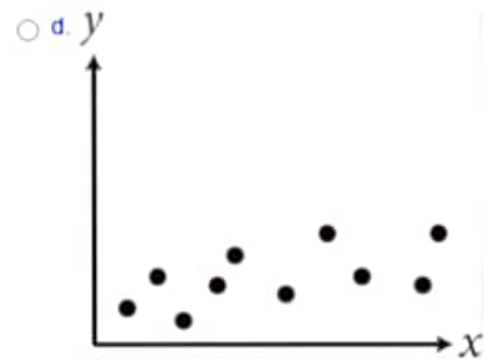
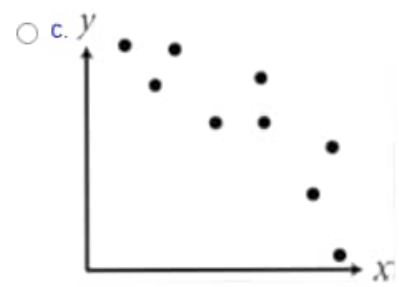
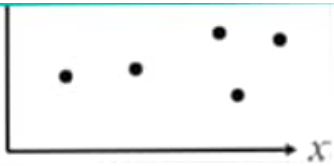
≡ Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25			

Finish attempt ...

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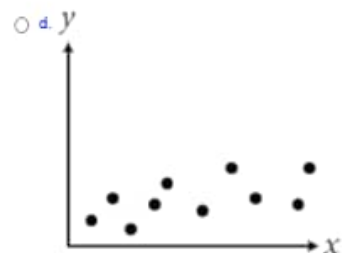
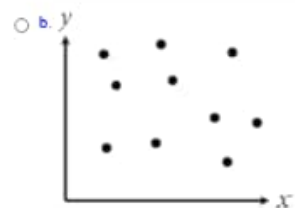
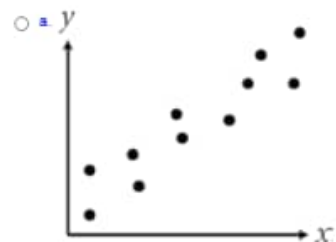
Question 21

Not yet answered

Marked out of 1.00

🚩 Flag question

Which of the following graphs shows a strong positive association between x and y ?



☰ Quiz navigation

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25								

Finish attempt ...

Time left 0:07:01

SWEN2014

አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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Hide blocks ✎ Standard view

Home

Dashboard

Events

My Courses

This course

Home

Colleges

Courses

Open Courseware

My courses > SWEN2014 > Maths Exam > Maths Exam

Question 22

Not yet answered

Marked out of 1.00

Flag question

The time taken to assemble a machine in a certain plant is a random variable having a normal distribution of 32 hours and a standard deviation of 3.6 hours. What is the probability that a machine can be assembled at this plant is less than 25.4 hours?

- ☐ a. 0.674
- ☐ b. 1.823
- ☐ c. 0.298
- ☐ d. 0.61
- ☐ e. 1

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25							



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam

Question 23

Not yet answered

Marked out of 1.00

[Flag question](#)

Almaz won the raffle at a fair. She will receive the prize money in 5 monthly payments. If each payment is half as much as the previous month's payment and the total of the payments is 496 Birr, what is the amount of the first payment in birr?

- ☐ a. 256 birr
- ☐ b. 96 birr
- ☐ c. 16 birr
- ☐ d. 84 birr

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25							

[Finish attempt ...](#)

Time left 0:05:44

[Previous page](#)[Next page](#)[PREVIOUS ACTIVITY](#)



አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

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[Home](#)[Dashboard](#)[Events](#)[My Courses](#)[This course](#)[Home](#)[Colleges](#)[Courses](#)[Open Courseware](#)[Hide blocks](#)[Standard view](#)[My courses](#) > [SWEN2014](#) > [Maths Exam](#) > Maths Exam**Question 23**

Not yet answered

Marked out of 1.00

[Flag question](#)

Almaz won the raffle at a fair. She will receive the prize money in 5 monthly payments. If each payment is half as much as the previous month's payment and the total of the payments is 496 Birr, what is the amount of the first payment in birr?

- ☐ a. 256 birr
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- ☐ c. 16 birr
- ☐ d. 84 birr

[Clear my choice](#)**Quiz navigation**

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25							

[Finish attempt ...](#)

Time left 0:01:25

[Previous page](#)[Next page](#)

SWEN2014

አዲስ : አበባ : ሳይንስ : እና : ቴክኖሎጂ : ዩኒቨርሲቲ

ADDIS ABABA SCIENCE & TECHNOLOGY UNIVERSITY

Hide blocks Standard view

Home

Dashboard

Events

My Courses

This course

Home

Colleges

Courses

Open Courseware

My courses > SWEN2014 > Maths Exam > Maths Exam

Question 24

Not yet answered

Marked out of 1.00

Flag question

How many relations exist from set X to set Y if the set X and set Y has 7 and 8 elements? $\sqrt{2^{56}}$

- ☐ a. $\sqrt{3^{56}}$
- ☐ b. 56
- ☐ c. $\sqrt{2^{72}}$
- ☐ d. $\sqrt{2^{56}}$

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25							

Next page



SWEN2014

አዲስ አበባ ሳይንስና ቴክኖሎጂ ዩኒቨርሲቲ

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Hide blocks Standard view

Home

Dashboard

Events

My Courses

This course

Home

Colleges

Courses

Open Courseware

My courses > SWEN2014 > Maths Exam > Maths Exam

Question 25

Not yet answered

Marked out of 1.00

Flag question

A number is increased by 25 percent and then decreased by 20 percent. The result is what percent of the original number?

- ☐ a. 105
- ☐ b. 80
- ☐ c. 120
- ☐ d. 100

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25							

Finish attempt

Question **25**
Not yet answered
Marked out of 1.00
Flag question

A number is increased by 25 percent and then decreased by 20 percent. The result is what percent of the original number?

☐ a. 105
☒ b. 80
☐ c. 120
☐ d. 100

[Clear my choice](#)

Previous page

Finish attempt ...

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25							

Finish attempt ...
Time left 0:00:28

PREVIOUS ACTIVITY
Mock Exam

Jump to...

