نموذج_امتحان_رياضيات_الصف_الحادي_عشر_عام_ريفي_لالفصل_لالدراسي_الأول

تم تحميل هذا الملف من موقع المناهج الإماراتية
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف العاشر المتقدم ⇦ فيزياء ⇦ الفصل الأول ⇦ حلول ⇦ الملف
تاريخ إضافة الملف على موقع المناهج: 2026-11-22 19:36:37
المزيد من مادة فيزياء: ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

التواصل الاجتماعي بحسب الصف العاشر المتقدم					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف العاشر المتقدم والمادة فيزياء في الفصل الأول	
1	نموذج_امتحان_رياضيات_الصف_الحادي_عشر_عام_ريفي_لالفصل_لالدراسي_الأول
2	نموذج_امتحان_رياضيات_الصف_العاشر_متقدم_ريفي_لالفصل_لالدراسي_الأول
3	نموذج_امتحان_رياضيات_الصف_السابع_عام_ريفي_لالفصل_لالدراسي_الأول_2026
4	نموذج_امتحان_رياضيات_الصف_السابع_عام_الفصل_لالدراسي_الأول_2026_2027
5	شرح وحل مسائل المرايا المستوية والكروية

تحميل تطبيق المناهج للهواتف الذكية	
تطبيق المناهج على App Store (آبل)	تطبيق المناهج على Play Google (أندرويد)

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وزارة التربية والتعليم
MINISTRY OF EDUCATION

نموذج امتحان رياضيات
الصف الحادي عشر عام
الفصل الدراسي الأول 2026-2027
ريفيل

اِحجِزْ مَكانَكَ وَاستَعِدَّ لِلْامتِحَانِ بِثِقَةٍ كَامِلَةٍ

احصل على الشرح الكامل للصف من خلال:

التواصل والحجز عبر الـ Whatsapp
اضغط على الرقم: 0566991363



للتواصل والحجز

للانتقال إلى المواقع
اضغط هنا

شرح الدروس

انضم للقناة

Mr. Aghead

يمكنكم الحصول على



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لا تتردد في التواصل
معنا قم بمسح الـ QR

Part 1: Multiple Choice Questions (MCQ)

Question 1: $\triangle TRS$ has vertices $T(-4,-5)$, $R(0,6)$, and $S(4,3)$. Find the coordinates of the vertices of $\triangle T'R'S'$ after a dilation of $\triangle TRS$ by a scale factor of $k = \frac{1}{2}$.

A. $T'(-2,-2.5)$, $R'(0,3)$, $S'(2,1.5)$
B. $T'(-8,-10)$, $R'(0,12)$, $S'(8,6)$
C. $T'(-2,-5)$, $R'(0,6)$, $S'(2,3)$
D. $T'(2,2.5)$, $R'(0,-3)$, $S'(-2,-1.5)$

Question 2: On the map of the fairgrounds, the side lengths of the triangle connecting the concert hall (C), the sports center (S), and the Ferris wheel (F) are $CS = 4$ cm, $SF = 8$ cm, and $FC = 9$ cm. If the actual distance between the concert hall and the sports center ($C'S'$) is 20 meters, what is the total actual distance Geoffrey will travel to visit all three attractions and return to his starting point?

A. 84 meters
B. 95 meters
C. 100 meters
D. 105 meters

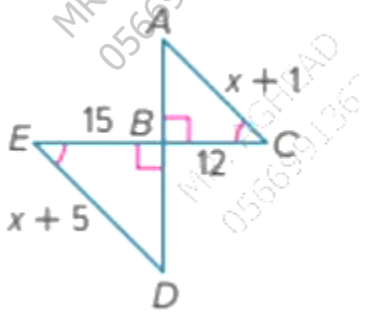
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Question 3: In the figure provided, line segment PQ is parallel to line segment JK ($PQ \parallel JK$). Determine whether $\triangle KLJ$ and $\triangle QLP$ are similar, and state the reasoning.



A. Yes, $\triangle KLJ \sim \triangle QLP$ by AA Similarity (since $\angle L \cong \angle L$ and $\angle LPQ \cong \angle LJK$).
B. Yes, $\triangle KLJ \sim \triangle QLP$ by SSS Similarity.
C. No, because the sides are not proportional.
D. No, because the angles are not congruent.

Question 4: In the given figure, $\triangle ABC$ and $\triangle EBD$ are right-angled at B, with $\angle C \cong \angle E$. Given $BC = 12$, $EB = 15$, $ED = x + 5$, and $AC = x + 1$, what is the length of AC?

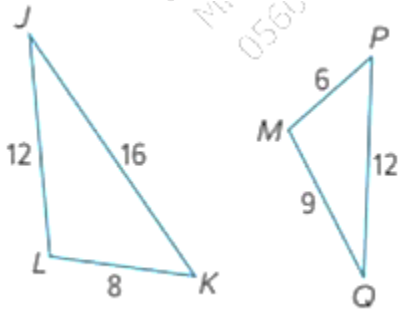


A. $AC = 12$
B. $AC = 16$
C. $AC = 20$
D. $AC = 15$

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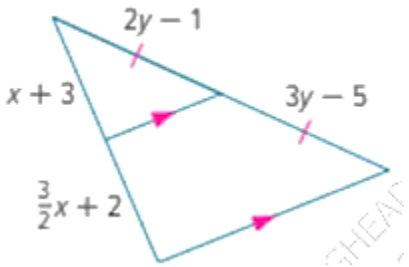
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Question 5: $\triangle JLK$ has side lengths $JL = 12$, $LK = 8$, and $JK = 16$, while $\triangle QMP$ has side lengths $QM = 9$, $MP = 6$, and $QP = 12$. Determine whether the triangles are similar and state the correct reasoning.



A. Yes, $\triangle JLK \sim \triangle QMP$ by the SSS Similarity Theorem because the ratio of all corresponding sides is $\frac{4}{3}$.
B. Yes, $\triangle JLK \sim \triangle QMP$ by the SAS Similarity Theorem.
C. No, because the corresponding side ratios are not equal.
D. No, because the angles are not congruent.

Question 6: In the given figure, a line segment inside the triangle is parallel to one of its sides. The segments along one side are marked as congruent ($2y - 1 = 3y - 5$). Find the values of x and y.

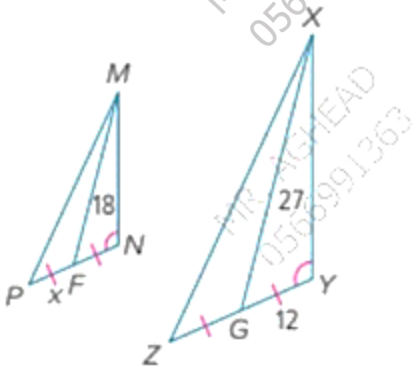


A. $x = 4,\ y = 3$
B. $x = 3,\ y = 4$
C. $x = 1,\ y = 4$
D. $x = 2,\ y = 4$

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Question 7: In the given figure, $\triangle MNP \sim \triangle XYZ$. $\overline{MF}$ and $\overline{XG}$ are corresponding medians, with $MF = 18, XG = 27, PF = x$, and $GY = 12$. Find the value of x.

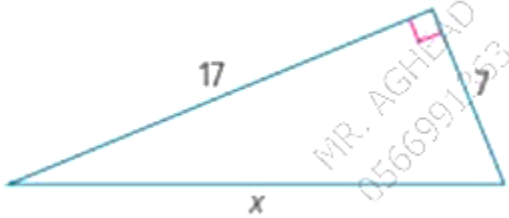
A. $x = 8$
B. $x = 9$
C. $x = 12$
D. $x = 16$



Question 8: Find the geometric mean between 12 and 15. Write your answer in simplest radical form.

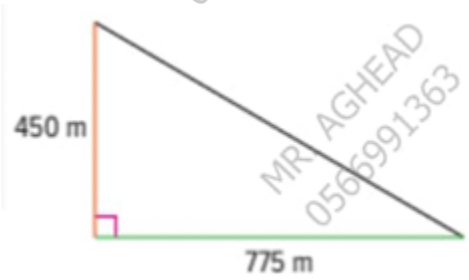
A. $3\sqrt{10}$
B. 180
C. $6\sqrt{5}$
D. $9\sqrt{5}$

Question 9: In the right-angled triangle shown, the lengths of the two legs are 17 and 7, and the length of the hypotenuse is x. Find the value of x in simplest radical form.



A. $x = 24$
B. $x = 13$
C. $x = \sqrt{240}$
D. $x = 13\sqrt{2}$

Question 10: A summer camp is building a new zip lining course. The designer of the course wants the last zip line to start at a platform 450 meters above the ground and end 775 meters away from the base of the platform. How long must the zip line be to meet the designer's specifications?



A. $25\sqrt{1285}$ meters (or about 896.17 meters)
B. 896.17 meters
C. 1225 meters
D. $600\sqrt{5}$ meters

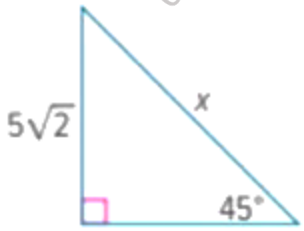
Question 11: An airplane in a three-dimensional coordinate system is located at $(17, -14, 23)$, and an air traffic control tower is located at $(0, 0, 0)$. If each unit on the coordinate system represents a kilometer, what is the distance between the airplane and the tower? Round your answer to the nearest tenth, if necessary.

A. 26.0 km
B. 28.6 km
C. 30.0 km
D. 31.8 km

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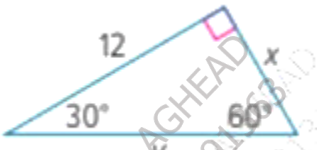
Question 12: In a $45° - 45° - 90°$ right triangle, the length of one leg is $5\sqrt{2}$. Find the length of the hypotenuse x.

A. $x = 5$
B. $x = 10$
C. $x = 10\sqrt{2}$
D. $x = 5\sqrt{2}$



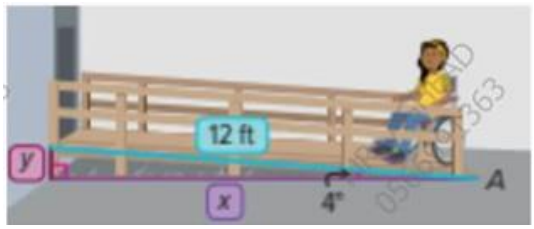
Question 13: In the $30° - 60° - 90°$ right triangle shown, the leg opposite the $30°$ angle is x, the leg opposite the $60°$ angle is 12, and the hypotenuse is y. Find the values of x and y.

A. $x = 4\sqrt{3},\ y = 8\sqrt{3}$
B. $x = 8\sqrt{3},\ y = 4\sqrt{3}$
C. $x = 6,\ y = 12$
D. $x = 12\sqrt{3},\ y = 24$



Question 14: Mathias builds a 12-foot ramp so his sister can access the back door of their house. The ramp slopes upward from the ground at a $4°$ angle. What is the horizontal distance x between the foot of the ramp and the house? Round your answer to the nearest hundredth.

A. 0.84 feet
B. 11.50 feet
C. 11.97 feet
D. 12.00 feet



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Question 15: A flare is shot vertically into the air approximately 200 meters from base camp. The angle of elevation to the maximum height of the flare is 35°. Which equation represents this situation if a represents the maximum height of the flare?

A. $sin\ 35° = \frac{a}{200}$
B. $tan\ 35° = \frac{a}{200}$
C. $cos\ 35° = \frac{a}{200}$
D. $tan\ 35° = \frac{200}{a}$

Question 16: Kembe has a black hat (B) and a red hat (R). He chooses one hat for each day, Saturday and Sunday. Which of the following represents the total sample space S for this experiment?

A. $S = \{(R,R),(B,B)\}$
B. $S = \{(R,R),(R,B),(B,R),(B,B)\}$
C. $S = \{(R,B),(B,R)\}$
D. $S = \{(R,R),(R,B),(B,B)\}$

Question 17: A fair die is tossed once. What is the sample space S of the experiment?

A. $S = \{1,2,3,4,5\}$
B. $S = \{2,4,6\}$
C. $S = \{1,3,5\}$
D. $S = \{1,2,3,4,5,6\}$

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Question 18: Ana is a member of a gaming website that randomly pairs users together to solve puzzles. Of the 50 other players currently online, Ana is friends with 10 of them. Suppose Ana is paired with a player for a game, disconnects, and is paired again with another player from the same pool of 50 players. What is the probability that neither player Ana is paired with is a friend of hers?

A. $\frac{1}{25}$ or 4%
B. $\frac{16}{25}$ or 64%
C. $\frac{4}{25}$ or 16%
D. $\frac{9}{25}$ or 36%

Question 19: On a math test, 5 out of 20 students got all the questions correct. If three students are chosen at random without replacement, what is the probability that all three students got all the questions correct on the test?

A. $\frac{1}{114}$ or about 0.88%
B. $\frac{1}{64}$ or about 1.56%
C. $\frac{1}{57}$ or about 1.75%
D. $\frac{3}{20}$ or 15%

Question 20: The format used to determine an overall champion varies by sport. One type of format used is the best-of-seven series, where up to seven games are played and four wins determine champion. If you assume that each team has an equal chance of winning each game, what is the probability of a specific team winning the first four games in a best-of-seven series?

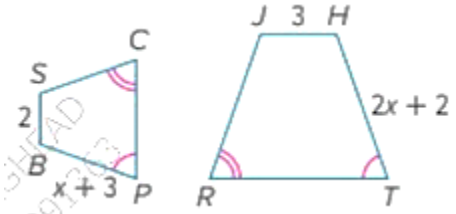
A. $\frac{1}{4}$ or 25%
B. $\frac{1}{16}$ or 6.25%
C. $\frac{1}{8}$ or 12.5%
D. $\frac{1}{32}$ or 3.125%

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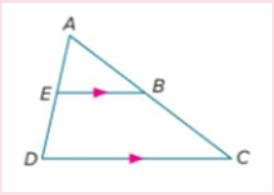
Part 2: Free Response Questions (FRQ)

Question 21: Each pair of polygons is similar ($BSCP \sim HJRT$). Find the value of x.

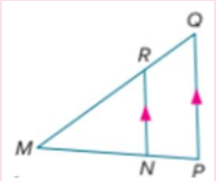


Question 22: Use the figure at the right ($\overline{EB} \parallel \overline{DC}$) to answer Part (a), and solve Part (b):

a. If $AB = 6$, $BC = 4$, and $AE = 9$, find ED.



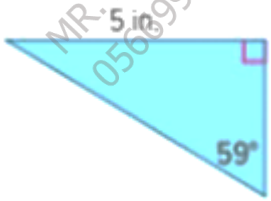
b. In $\triangle MPQ$, determine whether $\overline{NR} \parallel \overline{PQ}$ if $PM = 18$, $PN = 6$, $QM = 24$, and $RM = 16$. Justify your answer.



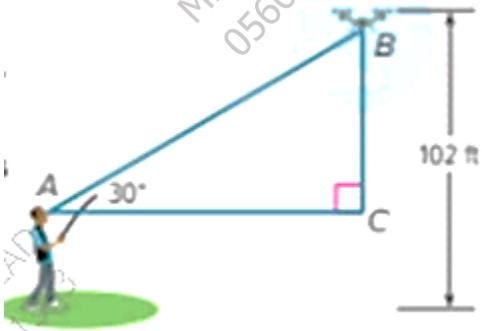
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Question 23: Find the perimeter and area of the right triangle shown. Round to the nearest hundredth.



Question 24: DRONES: Rakeem is flying his drone at the park. He spots the drone at an angle of elevation that he estimates to be 30°. The remote control tells Rakeem that his drone is 102 feet above the ground. If Rakeem is 6 feet tall, how far is he from the drone to the nearest foot?



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Question 25: The table shows the estimated contents of 2 boxes of microchips. Use this information to answer parts (a) and (b):

a. Derek randomly selects one chip from Box B, does not put it back, and then randomly selects another chip from Box B. What is the probability that both chips are defective? Explain.

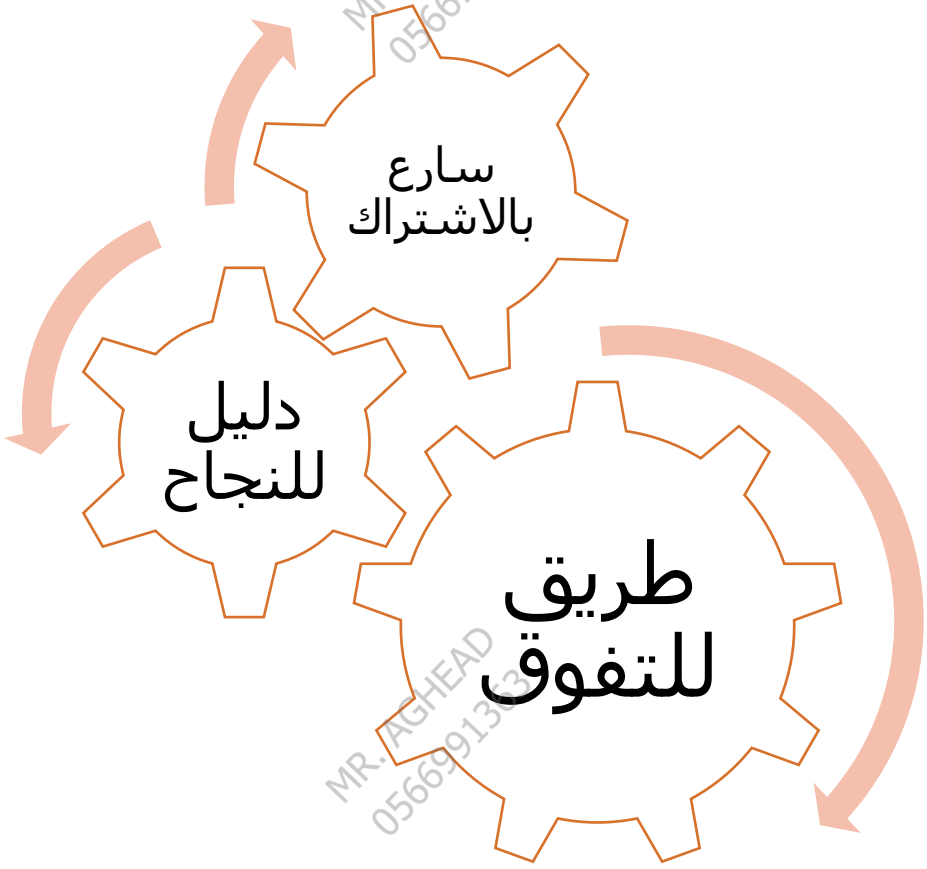
b. Sunita randomly selects one chip from Box A, and then she randomly selects another chip from Box A. The probability that both chips are defective is $\frac{1}{625}$. Did Sunita replace the first chip before selecting the second one? Explain.

Box	Number of Chips	Defective
Box A	100	4%
Box B	150	2%

Question 26: A game piece is selected at random from a plate containing 10 pieces: 5 round pieces (2 orange, 2 blue, 1 green) and 5 non-round pieces , What is the probability that the game piece is round or orange?



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مع أطيب التمنيات بالنجاح والتوفيق ...

النهاية ...

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