

Status Finished

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Grade 23.50 out of 25.00 (94%)

Feedback 🎉 Congratulations! You have passed Part 1. You will sit for the Part 2 exam. 📌 🙌

Question 1

Correct

Mark 1.00 out of 1.00

v3 (latest)

The solution of the inequality $2 \leq 6x - 4 \leq 8$ is in the ..

أوجد حل المتباينة

- ☐ Interval: $[1, 4]$
- ☒ Interval: $[1, 2]$ ✓
- ☐ Interval: $[1, 3]$
- ☐ Interval: $[-1, 1]$
- ☐ Interval: $[-2, 0]$

Your answer is correct.

The correct answer is: Interval: $[1, 2]$

Question 2

Incorrect

Mark 0.00 out of 1.00

v4 (latest)

Find the equation of the line with slope $m = \frac{1}{3}$ passing through the point $(6, -1)$.

ابحث عن معادلة المستقيم الذي ميله $m = \frac{1}{3}$ ويمر بالنقطة $(6, -1)$

- ☐ $y = \frac{1}{3}(x - 3)$
- ☐ $y = \frac{1}{3}x + 4$
- ☐ $y = \frac{1}{3}x - 5$
- ☐ $y = \frac{1}{3}x - 3$
- ☒ $y = \frac{1}{3}x + 1$ ❌

Your answer is incorrect.

The correct answer is: $y = \frac{1}{3}x - 3$

Question 3

Correct

Mark 1.00 out of 1.00

v4 (latest)

The solutions of the quadratic equation $2x^2 + 5x + 3 = 0$ are

أوجد حل المعادلة التربيعية

- ☒ $x = -\frac{3}{2}, x = -1$ ✔️
- ☐ $x = \frac{3}{2}, x = -3$
- ☐ $x = -\frac{4}{3}, x = -3$
- ☐ $x = -\frac{3}{2}, x = 3$
- ☐ $x = -\frac{3}{2}, x = 1$

Your answer is correct.

The correct answer is: $x = -\frac{3}{2}, x = -1$

Question 4

Correct

Mark 1.00 out of 1.00

v2 (latest)

Multiply the rational expression: $\frac{x^2 - 2x}{x^2 - 2x - 3} \cdot \frac{x^2 + 4x + 3}{x^2 + x - 6}$

أضرب

- ☐ $\frac{x - 2}{x + 1}$
- ☐ $\frac{x}{x + 3}$
- ☐ $\frac{x}{x - 1}$
- ☐ $\frac{x}{x + 2}$
- ☒ $\frac{x}{x - 3}$ ✓

Your answer is correct.

The correct answer is: $\frac{x}{x - 3}$ **Question 5**

Correct

Mark 1.00 out of 1.00

v3 (latest)

Multiply the polynomials: $(x - 2)(x^2 + 4x - 3)$

أضرب كثيرات الحدود

- ☐ $x^3 - 6x^2 + 11x + 6$
- ☒ $x^3 + 2x^2 - 11x + 6$ ✓
- ☐ $x^3 + 2x^2 - 11x - 6$
- ☐ $x^3 + 6x^2 + 6$
- ☐ $x^3 + 4x^2 + 5x + 6$

Your answer is correct.

The correct answer is: $x^3 + 2x^2 - 11x + 6$

Question 6

Correct

Mark 0.50 out of 0.50

v6 (latest)

The center of the circle $(x + 6)^2 + (y + 5)^2 = 25$ is

أوجد مركز الدائرة

- ☐ $(-5, -6)$
- ☒ $(-6, -5)$ ✓
- ☐ $(6, 5)$
- ☐ $(6, -5)$
- ☐ $(5, 6)$

Your answer is correct.

The correct answer is: $(-6, -5)$

Question 7

Correct

Mark 0.50 out of 0.50

v3 (latest)

Osama bought 8 gallons of water. Convert the volume to liters.

اشترى أسامة 8 جالونات من الماء. حول الحجم إلى لتر

[1Gallon = 3.785L]

- ☐ 28.56 *Liters*
- ☐ 32.14 *Liters*
- ☒ 30.28 *Liters* ✓
- ☐ 25.14 *Liters*
- ☐ 24.28 *Liters*

Your answer is correct.

The correct answer is: 30.28 *Liters*

Question 8

Correct

Mark 0.50 out of 0.50

v2 (latest)

The greatest common factor of $30x^3$, $25x^2$, $15x$ is ...

أوجد العامل المشترك الأكبر

- ☒ $5x$ ✓
- ☐ $25x^2$
- ☐ $15x$
- ☐ $10x^2$
- ☐ $30x^3$

Your answer is correct.

The correct answer is: $5x$

Question 9

Correct

Mark 0.50 out of 0.50

v2 (latest)

Convert 35° Celcius to Kelvin.

حول من كالفن الى سليزي

- ☐ 273 Kelvin
- ☐ 35 Kelvin
- ☒ 308 Kelvin ✓
- ☐ -238 Kelvin
- ☐ 238 Kelvin

Your answer is correct.

The correct answer is: 308 Kelvin

Question 10

Correct

Mark 1.00 out of 1.00

v2 (latest)

Solve: $(4x - 4)\frac{1}{2} + 3 = 5$

حل المعادلة

- ☐ $x = -2$
- ☒ $x = 2$ ✓
- ☐ $x = 3$
- ☐ $x = 5$
- ☐ $x = 0$

Your answer is correct.

The correct answer is: $x = 2$ **Question 11**

Correct

Mark 1.00 out of 1.00

v2 (latest)

Simplify the complex rational expression: $\frac{\frac{12}{x^2 - 10x + 21}}{\frac{18}{x - 7}}$

بسط التعبير المعطى

- ☐ $\frac{3}{2(x - 7)}$
- ☒ $\frac{2}{3(x - 3)}$ ✓
- ☐ $\frac{3}{2(x + 3)}$
- ☐ $\frac{3}{2(x - 3)}$
- ☐ $\frac{1}{3(x + 7)}$

Your answer is correct.

The correct answer is: $\frac{2}{3(x - 3)}$

Question 12

Correct

Mark 1.00 out of 1.00

v1 (latest)

Factor completely: $(25y^2 - 1)$

حلل التعبير المعطى

- ☐ $(5y + 1)^2$
- ☐ $(10y - 1)(10y + 1)$
- ☐ $(25y - 1)(25y + 1)$
- ☒ $(5y - 1)(5y + 1)$ ✓
- ☐ $(5y - 1)^2$

Your answer is correct.

The correct answer is: $(5y - 1)(5y + 1)$ **Question 13**

Correct

Mark 0.50 out of 0.50

v2 (latest)

Which among the following is a linear equation?

أي من التالي هي معادلة خطية؟

- ☒ $7x - 6 = 0$ ✓
- ☐ $3x^3 - 5 = 0$
- ☐ $5x + 2$
- ☐ $2x + 2 \geq 0$
- ☐ $6x^2 + 11x - 4 = 0$

Your answer is correct.

The correct answer is: $7x - 6 = 0$

Question 14

Correct

Mark 1.00 out of 1.00

v13 (latest)

The sector of a circle has a central angle of 45° and a radius of 4 cm. The area of the sector is...

قطاع دائري له زاوية مركزية تساوي 60° ونصف قطر يساوي 4 سم. احسب المساحة

- ☐ $\frac{8\pi}{3}$ square cm
- ☐ 4π square cm
- ☐ 16π square cm
- ☐ $\frac{16\pi}{9}$ square cm
- ☒ 2π square cm ✓

Your answer is correct.

The correct answer is: 2π square cm

Question 15

Correct

Mark 1.00 out of 1.00

v5 (latest)

The simplified form of $(\sin 6x + \cos 6x)^2 + (\sin 6x - \cos 6x)^2$ is

أكتب المقدار المعطى في أبسط صورة

- ☐ $5 \sin 6x$
- ☐ $6 \sin 6x$
- ☐ $2 \cos 6x$
- ☐ 4
- ☒ 2 ✓

Your answer is correct.

The correct answer is: 2

Question 16

Correct

Mark 1.00 out of 1.00

v2 (latest)

Simplify: $\sqrt{\frac{18a^5b^7}{50ab^2}}$

بسط

- ☒ $\frac{3a^2b^2\sqrt{b}}{5}$ ✓
- ☐ $\frac{3a^2b^2\sqrt{a}}{5}$
- ☐ $\frac{5a^3b^2\sqrt{a}}{4}$
- ☐ $\frac{6a^2b^4\sqrt{b}}{4}$
- ☐ $\frac{3a^3b^2\sqrt{b}}{5}$

Your answer is correct.

The correct answer is: $\frac{3a^2b^2\sqrt{b}}{5}$ **Question 17**

Correct

Mark 1.00 out of 1.00

v2 (latest)

Find three consecutive integers whose sum is 69.

أوجد ثلاثة أعداد صحيحة متتالية مجموعها 69

- ☒ 22, 23, 24 ✓
- ☐ 21, 23, 25
- ☐ 24, 27, 30
- ☐ 20, 23, 26
- ☐ 19, 21, 26

Your answer is correct.

The correct answer is: 22, 23, 24

Question 18

Correct

Mark 1.00 out of 1.00

v3 (latest)

The commutative property of multiplication for the expression: $7a(6 + b) =$

$7a(6 + b) =$ خاصية التبديل في عملية الضرب للتعبير:

- ☐ $7a(b + 8)$
- ☐ $7a.6 + 7a.b$
- ☐ $(6 + a)7b$
- ☒ $(6 + b)7a$ ✓
- ☐ $(6 + b).7$

Your answer is correct.

The correct answer is: $(6 + b)7a$

Question 19

Correct

Mark 0.50 out of 0.50

v5 (latest)

Convert 42 *inches* to *feet*. [1 *Foot*=12 *inches*]

حول المقدار 42 أنش الى قدم

- ☐ 30 *feet*
- ☐ 504 *feet*
- ☐ 54 *feet*
- ☐ 6.5 *feet*
- ☒ 3.5 *feet* ✓

Your answer is correct.

The correct answer is: 3.5 *feet*

Question 20

Correct

Mark 1.00 out of 1.00

v1 (latest)

Factor the trinomial of the form: $p^2 + 6pq - 27q^2$

حلل التعبير المعطى

- ☐ $(3p + q)(p - 9q)$
- ☐ $(3p - q)(p - 9q)$
- ☐ $(p + 3q)(p - 9q)$
- ☐ $(p + 3q)(9p - q)$
- ☒ $(p - 3q)(p + 9q)$ ✓

Your answer is correct.

The correct answer is: $(p - 3q)(p + 9q)$ **Question 21**

Correct

Mark 1.00 out of 1.00

v3 (latest)

Simplified form of the given expression $\frac{m^3 n^3}{a^2 c^{-2}} \cdot \frac{a^{-7} n^{-2}}{m^2 c^4}$ is ...

بسط التعبير المعطى

- ☐ $\frac{m^5 n^{-5}}{a^9 c^2}$
- ☐ $\frac{mn}{a^7 c^3}$
- ☒ $\frac{mn}{a^9 c^2}$ ✓
- ☐ $\frac{mn}{a^9 c^{-2}}$
- ☐ $\frac{mn^{-1}}{a^7 c^2}$

Your answer is correct.

The correct answer is: $\frac{mn}{a^9 c^2}$

Question 22

Correct

Mark 1.00 out of 1.00

v2 (latest)

Add: $\frac{4}{x-3} + \frac{3}{2x-5}$

أجمع

- ☒ $\frac{11x - 29}{(x-3)(2x-5)}$ ✓
- ☐ $\frac{11x + 29}{(x+3)(2x-5)}$
- ☐ $\frac{5x + 11}{(x-3)(2x-5)}$
- ☐ $\frac{11x + 11}{(x-3)(2x-5)}$
- ☐ $\frac{11}{(x-3)(2x-5)}$

Your answer is correct.

The correct answer is: $\frac{11x - 29}{(x-3)(2x-5)}$

Question 23

Correct

Mark 1.00 out of 1.00

v13 (latest)

If the height of the tree is 50 feet and the distance from the base of the tree to some point on the ground is 50 feet, then the angle of elevation will be ...

إذا كان ارتفاع الشجرة 50 قدمًا والمسافة من قاعدة الشجرة إلى نفس النقطة على الأرض هي 50 قدمًا، فما هي زاوية الارتفاع؟

- ☐ 35°
- ☐ 30°
- ☐ 90°
- ☒ 45° ✓
- ☐ 60°

Your answer is correct.

The correct answer is: 45°

Question 24

Correct

Mark 0.50 out of 0.50

v3 (latest)

Nasser ran a 35 *kilometer* race. How many meters did he run?

ركض ناصر في سباق مسافته 35 كيلومتر. كم مترًا ركض؟

- ☒ 35000 *meters* ✓
- ☐ 3500 *meters*
- ☐ 7000 *meters*
- ☐ 350 *meters*
- ☐ 70000 *meters*

Your answer is correct.

The correct answer is: 35000 *meters*

Question 25

Correct

Mark 0.50 out of 0.50

v3 (latest)

The distance between the points $(3, -2)$ and $(4, 3)$ is ...

المسافة بين النقطتين

- ☐ $\sqrt{48}$ units
- ☒ $\sqrt{26}$ units ✓
- ☐ $\sqrt{24}$ units
- ☐ $\sqrt{50}$ units
- ☐ $\sqrt{2}$ units

Your answer is correct.

The correct answer is: $\sqrt{26}$ units

Question 26

Correct

Mark 1.00 out of 1.00

v3 (latest)

Subtract: $8y^2 - y + 12$ from $5y^2 - 8y - 20$.

إطرح المقدار $5y^2 - 8y - 20$ من $8y^2 - y + 12$

- ☐ $13y^2 + 7y - 8$
- ☐ $-4y^2 + 3y - 32$
- ☐ $-3y^2 - 7y - 8$
- ☒ $-3y^2 - 7y - 32$ ✓
- ☐ $-3y^2 + 6y - 8$

Your answer is correct.

The correct answer is: $-3y^2 - 7y - 32$

Question 27

Incorrect

Mark 0.00 out of 0.50

v3 (latest)

Suppose that the point $(-3, 4)$ lies on a graph that has y -axis symmetry. What other point must lie on the graph?

افترض أن النقطة $(-3, 4)$ تقع على رسم بياني له تناظر حول محور الصادات . ما هي النقطة الأخرى التي يجب أن تقع على الرسم البياني؟

- ☐ $(-3, 0)$
- ☐ $(4, -3)$
- ☒ $(-3, -4)$ ✗
- ☐ $(3, 4)$
- ☐ $(0, 4)$

Your answer is incorrect.

The correct answer is: $(3, 4)$

Question 28

Correct

Mark 0.50 out of 0.50

v2 (latest)

Which among the following is an irrational number?

أي من الأعداد التالية هو عدد غير نسبي؟

- ☐ 23.232323....
- ☐ $\sqrt{64}$
- ☐ 6
- ☐ 3.3456
- ☒ 12.73π ✓

Your answer is correct.

The correct answer is: 12.73π

Question 29

Correct

Mark 1.00 out of 1.00

v6 (latest)

$\left(\frac{5}{24} + \frac{2}{18}\right)$ is equal to

- ☐ $\frac{15}{72}$
- ☐ $\frac{5}{72}$
- ☒ $\frac{23}{72}$ ✓
- ☐ $\frac{21}{72}$
- ☐ $\frac{18}{72}$

Your answer is correct.

The correct answer is: $\frac{23}{72}$

Question 30

Correct

Mark 1.00 out of 1.00

v3 (latest)

The area of a rectangle is 70 square meter. If the length is 3 meters more than the breadth, find the length and breadth.

مساحة المستطيل هي 70 متر مربع. إذا كانت الطول أكبر من العرض بمقدار 3 متر، احسب الطول والعرض

- ☐ Length=30 m, Breadth =28 m
- ☐ Length =35 m, Breadth = 32m
- ☐ Length=8 m, Breadth =5 m
- ☐ Length= 14 m,Breadth =11 m
- ☒ Length=10 m, Breadth =7 m ✓

Your answer is correct.

The correct answer is: Length=10 m, Breadth =7 m