

مراجعة هيكل الرياضيات



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف العاشر المتقدم ← رياضيات ← الفصل الثالث ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 2026-05-26 14:28:13

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة
رياضيات:

إعداد: خديجة عبدالرحمن اليوسف

التواصل الاجتماعي بحسب الصف العاشر المتقدم



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف العاشر المتقدم والمادة رياضيات في الفصل الثالث

هيكل الفصل الدراسي الثالث 2025 - 2026 للصف العاشر متقدم

1

EOT COVERAGE

2

هيكل اختبار نهاية الفصل 2026م

3

ملزمة هيكل 2026 - ريفيل

4

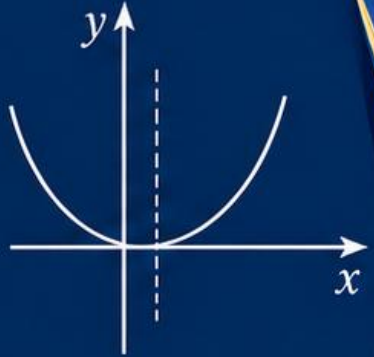
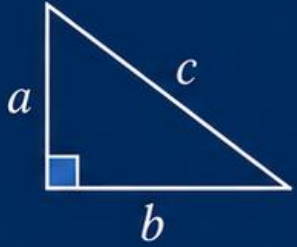
هيكل امتحان نهاية الفصل الدراسي الثالث يغطي مجموعة كبيرة المواضيع

5

$$ax^2+bx+c=0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$f(x) = ax^2 + bx + c$$



$$A = \pi r^2$$

مراجعة

هيكل الرياضيات

للفيف العاشر المتقدم

الفصل الثالث

منهج ريفيل

العام الدراسي 2025-2026

Mathematics EOT Review

for Grade 10 Advanced

Term 3

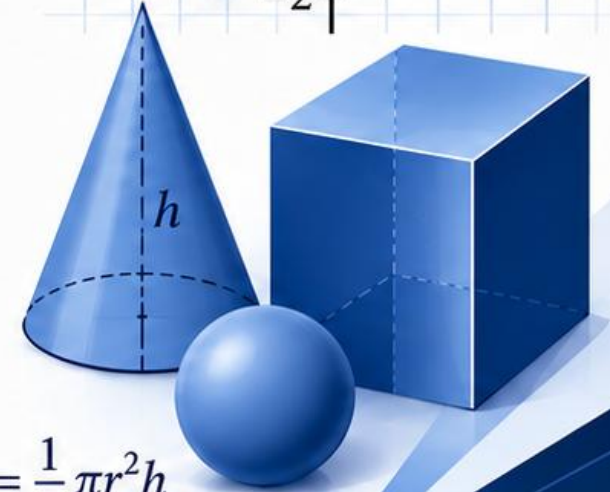
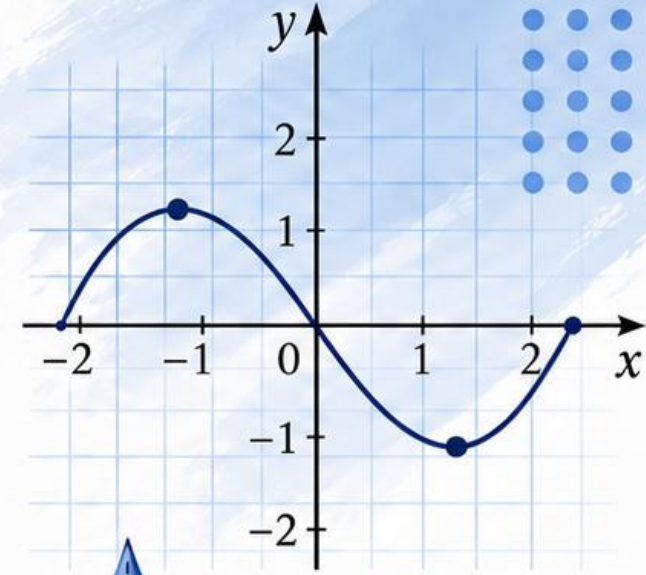
Reveal Curriculum (EOT)

Academic Year 2025-2026



المعلمة خديجة عبدالرحمن اليوسف

Teacher: Khadija Abdulrahman AlYousef



$$V = \frac{1}{3} \pi r^2 h$$

مراجعة الوحدة الرابعة من هيكل الرياضيات الصف العاشر المتقدم - ريفيل

مخرجات الهيكل	رابط الشرح على اليوتيوب
19 الى 21	https://youtu.be/J5h898_w25Y?si=ov922sKfj3dUdbLc
22 الى 25	https://youtu.be/kGGEu-vlBhI?si=5l1uy0uafsLWQMaT

"رَبِّ اشْرَحْ لِي صَدْرِي * وَيَسِّرْ لِي أَمْرِي * وَاحْلُلْ عُقْدَةً مِنْ لِسَانِي * يَفْقَهُوا قَوْلِي"

قال رسول الله ﷺ: "إذا مات ابن آدم انقطع عمله إلا من ثلاث: صدقة جارية، أو علم ينتفع به، أو ولد صالح يدعو له"



19	Find the composition of functions (lesson 4.1)	21-30	165
----	---	-------	-----

Choose the correct answer:

If $f(x) = 3x$, $g(x) = x + 4$, and $h(x) = x^2 - 1$, find each value.

21) What is the value of $f[g(1)]$?

- A. 5
- B. 9
- C. 15
- D. 18



19	Find the composition of functions (lesson 4.1)	21-30	165
----	---	-------	-----

Choose the correct answer:

If $f(x) = 3x$, $g(x) = x + 4$, and $h(x) = x^2 - 1$, find each value.

22) What is the value of $g[h(0)]$?

- A. -1
- B. 1
- C. 3
- D. 4



19	Find the composition of functions (lesson 4.1)	21-30	165
----	---	-------	-----

Choose the correct answer:

If $f(x) = 3x$, $g(x) = x + 4$, and $h(x) = x^2 - 1$, find each value.

25) What is the value of $g[h(-3)]$?

- A. 8
- B. 9
- C. 12
- D. 16



19	Find the composition of functions (lesson 4.1)	21-30	165
----	---	-------	-----

Choose the correct answer:

If $f(x) = 3x$, $g(x) = x + 4$, and $h(x) = x^2 - 1$, find each value.

28) What is the value of $(f \circ (h \circ g))(1)$?

- A. 72
- B. 24
- C. 15
- D. 30

19	Find the composition of functions (lesson 4.1)	21-30	165
----	---	-------	-----

Choose the correct answer:

If $f(x) = 3x$, $g(x) = x + 4$, and $h(x) = x^2 - 1$, find each value.

29.What is the value of $(f \circ (g \circ h))(-2)$?

- A. 7
- B. 3
- C. 25
- D. 21



حل هيك الرياضيات للصف العاشر المتقدم للفصل الثالث (ريفيل) 2025 - 2026



EOT Solution -Math - Grade 10 ADV-Term 3 (Reveal) 2025-2026

20	Find the inverse of a function or relation. Determine whether two functions or relations are inverses (lesson 4.2)	17-22	172
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Choose the correct answer:

Example 5

Determine whether each pair of functions are inverse functions. Write *yes* or *no*.

17. $f(x) = x - 1$

$$g(x) = 1 - x$$

18. $f(x) = 2x + 3$

$$g(x) = \frac{1}{2}(x - 3)$$



EOT Solution -Math - Grade 10 ADV-Term 3 (Reveal) 2025-2026

20	Find the inverse of a function or relation. Determine whether two functions or relations are inverses (lesson 4.2)	17-22	172
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Choose the correct answer:

19. $f(x) = 5x - 5$
 $g(x) = \frac{1}{5}x + 1$

20. $f(x) = 2x$
 $g(x) = \frac{1}{2}x$



حل هيكل الرياضيات للصف العاشر المتقدم للفصل الثالث (ريفيل) 2025 - 2026



EOT Solution -Math - Grade 10 ADV-Term 3 (Reveal) 2025-2026

20	Find the inverse of a function or relation. Determine whether two functions or relations are inverses (lesson 4.2)	17-22	172
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Choose the correct answer:

21. $h(x) = 6x - 2$

$$g(x) = \frac{1}{6}x + 3$$

22. $f(x) = 8x - 10$

$$g(x) = \frac{1}{8}x + \frac{5}{4}$$



EOT Solution -Math - Grade 10 ADV-Term 3 (Reveal) 2025-2026

20	Find the inverse of a function or relation. Determine whether two functions or relations are inverses (lesson 4.2)	17-22	172
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Choose the correct answer:

Which of the following pairs of functions are not inverse functions?

A. $f(x) = x - 1$ and $g(x) = 1 - x$

B. $f(x) = 2x + 3$ and $g(x) = \frac{1}{2}(x - 3)$

C. $f(x) = 5x - 5$ and $g(x) = \frac{1}{5}x + 1$

D. $f(x) = 8x - 10$ and $g(x) = \frac{1}{8}x + \frac{5}{4}$



EOT Solution -Math - Grade 10 ADV-Term 3 (Reveal) 2025-2026

20	Find the inverse of a function or relation. Determine whether two functions or relations are inverses (lesson 4.2)	17-22	172
----	---	-------	-----

Choose the correct answer:

Which of the following pairs of functions are inverse functions?

A. $h(x) = 6x - 2$ and $g(x) = \frac{1}{6}x + 3$

B. $f(x) = 2x + 3$ and $g(x) = \frac{1}{2}(x - 3)$

C. $f(x) = 5x - 5$ and $g(x) = \frac{1}{5}x - 1$

D. $f(x) = 8x - 10$ and $g(x) = \frac{1}{8}x - \frac{5}{4}$



21	Simplify expressions in exponential or radical form (lesson 4.3)	1-12	179
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Choose the correct answer:

Simplify:

$$\pm\sqrt{49x^4}$$

- A. $\pm 49x^2$
- B. $\pm 7x^4$
- C. $\pm x^2$
- D. $\pm 7x^2$

Simplify:

$$-\sqrt{16c^4d^2}$$

- A. $-16c^2d$
- B. $-4c^2 | d |$
- C. $-4c^4d^2$
- D. $4c^2d$

21	Simplify expressions in exponential or radical form (lesson 4.3)	1-12	179
----	--	------	-----

Choose the correct answer:

Simplify:

$$-\sqrt{81a^{16}b^{20}c^{12}}$$

- A. $-81a^8b^{10}c^6$
- B. $9a^8b^{10}c^6$
- C. $-9a^8b^{10}c^6$
- D. $-9a^{16}b^{20}c^{12}$

Simplify:

$$-\sqrt{400x^{32}y^{40}}$$

- A. $-20x^{16}y^{20}$
- B. $20x^{16}y^{20}$
- C. $-400x^{16}y^{20}$
- D. $-20x^{32}y^{40}$

21	Simplify expressions in exponential or radical form (lesson 4.3)	1-12	179
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Choose the correct answer:

Simplify:

$$\sqrt[4]{16(x-3)^{12}}$$

- A. $4(x-3)^3$
- B. $2|(x-3)^3|$
- C. $2(x-3)^{12}$
- D. $(x-3)^3$

Simplify:

$$\sqrt[8]{x^{16}y^8}$$

- A. x^2y
- B. $x^2|y|$
- C. xy
- D. $|x|^2y$

Since the index is even, the variable with an odd power after simplifying should use absolute value.



21	Simplify expressions in exponential or radical form (lesson 4.3)	1-12	179
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Choose the correct answer:

Simplify:

$$\sqrt[4]{81(x-4)^4}$$

- A. $9 | x - 4 |$
- B. $3(x - 4)$
- C. $3 | x - 4 |$
- D. $| x - 4 |^4$

Simplify:

$$\sqrt[6]{x^{18}}$$

- A. x^3
- B. $| x^3 |$
- C. $3x$
- D. $| x |^{18}$



21	Simplify expressions in exponential or radical form (lesson 4.3)	1-12	179
----	--	------	-----

Choose the correct answer:

Simplify:

$$\sqrt[4]{a^{12}}$$

- A. a^3
- B. $|a|^{12}$
- C. $|a^3|$
- D. $3a$

Simplify:

$$\sqrt[3]{a^{12}}$$

- A. a^{12}
- B. $|a^4|$
- C. a^6
- D. a^4

EOT Solution -Math - Grade 10 ADV-Term 3 (Reveal) 2025-2026

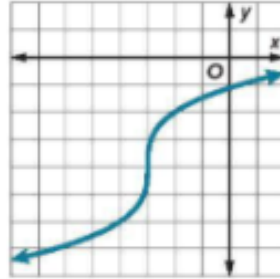
22	Graph and analyze square root functions. Graph and analyze radical functions. (lesson 4.4)	Example 7	188
		27-28	191

Example 7 Write a Radical Function

Write a radical function for the graph of $g(x)$.

Step 1 Identify the index.

Because the domain and range for $g(x)$ is all real numbers, the index is odd. This function can be represented by $g(x) = a\sqrt[n]{x-h} + k$.



Step 2 Identify any transformations.

The function has been translated 3 units left and 4 units down.

Therefore, $h = -3$ and $k = -4$. To find the value of a , use a point as well as the values of h and k .

$$g(x) = a\sqrt[n]{x-h} + k$$

Cube root function

$$-2 = a\sqrt[3]{-2 - (-3)} + (-4)$$

$$h = -3, k = -4, (x, g(x)) = (-2, -2)$$

$$-2 = a \cdot 1 - 4$$

Simplify.

$$a = 2$$

Simplify.

Step 3 Write the function.

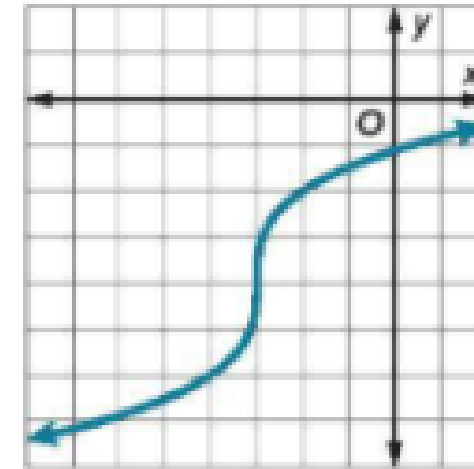
Substitute the values of a , h , and k to write the function. The graph is represented by $g(x) = 2\sqrt[3]{x+3} - 4$.

22	Graph and analyze square root functions. Graph and analyze radical functions. (lesson 4.4)	Example 7	188
		27-28	191

Choose the correct answer:

Which radical function represents the graph of $g(x)$?

- A. $g(x) = 2\sqrt[3]{x+3} - 4$
- B. $g(x) = -2\sqrt[3]{x+3} - 4$
- C. $g(x) = \sqrt[3]{x+3} - 4$
- D. $g(x) = 2\sqrt[3]{x-3} - 4$

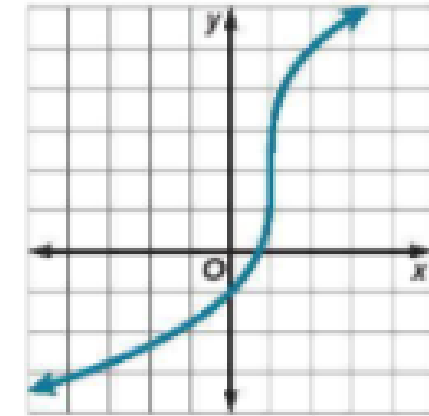


22	Graph and analyze square root functions. Graph and analyze radical functions. (lesson 4.4)	Example 7	188
		27-28	191

Choose the correct answer:

Which radical function represents the graph of $g(x)$?

- A. $g(x) = 2\sqrt[3]{x-1} + 2$
- B. $g(x) = 3\sqrt[3]{x-1} + 2$
- C. $g(x) = 3\sqrt[3]{x+1} + 2$
- D. $g(x) = -3\sqrt[3]{x-1} + 2$

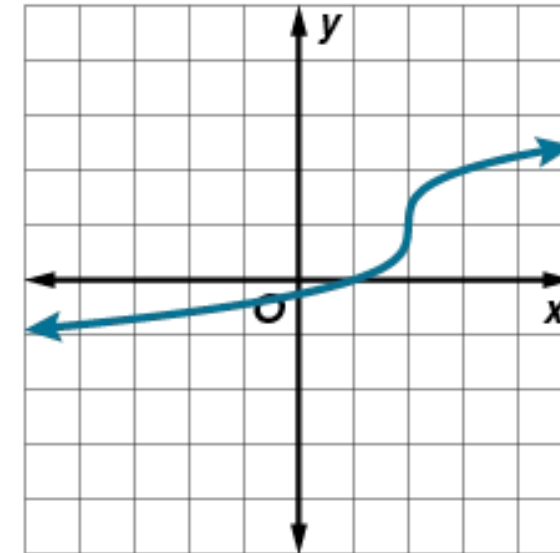


22	Graph and analyze square root functions. Graph and analyze radical functions. (lesson 4.4)	Example 7	188
		27-28	191

Choose the correct answer:

Which radical function represents the graph?

- A. $f(x) = \sqrt[3]{x+2} - 1$
- B. $f(x) = \sqrt[3]{x-2} + 1$
- C. $f(x) = 2\sqrt[3]{x-2} + 1$
- D. $f(x) = -\sqrt[3]{x-2} + 1$



22	Graph and analyze square root functions. Graph and analyze radical functions. (lesson 4.4)	Example 7	188
		27-28	191

Choose the correct answer:

Which radical function represents the graph?

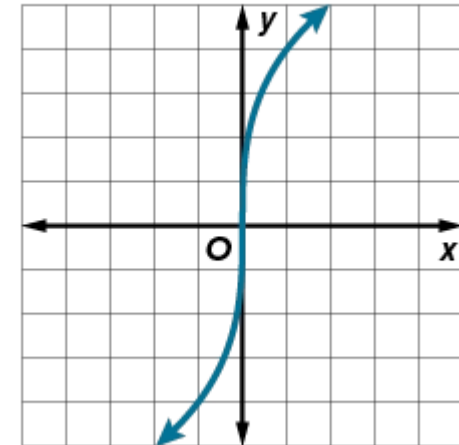
A. $g(x) = 4\sqrt[3]{x-1}$

B. $g(x) = -4\sqrt[3]{x}$

C. $g(x) = 2\sqrt[3]{x}$

D. $g(x) = 4\sqrt[3]{x}$

28.



23	Add, subtract, multiply, and divide radical expressions (lesson 4.5)	11-16	199
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Choose the correct answer:

Simplify the expression.

$$\sqrt{2} + \sqrt{8} + \sqrt{50}$$

- A. $7\sqrt{2}$
- B. $8\sqrt{2}$
- C. $6\sqrt{2}$
- D. 8



23	Add, subtract, multiply, and divide radical expressions (lesson 4.5)	11-16	199
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Choose the correct answer:

Simplify the expression.

$$\sqrt{12} - 2\sqrt{3} + \sqrt{108}$$

- A. $6\sqrt{3}$
- B. $4\sqrt{3}$
- C. $5\sqrt{3}$
- D. $8\sqrt{3}$

23	Add, subtract, multiply, and divide radical expressions (lesson 4.5)	11-16	199
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Choose the correct answer:

Simplify the expression.

$$\sqrt{28x} - \sqrt{14} + \sqrt{63x}$$

A. $5\sqrt{7x} - \sqrt{14}$

B. $2\sqrt{7x} + \sqrt{14}$

C. $3\sqrt{7x} - \sqrt{14}$

D. $4\sqrt{7x} - \sqrt{14}$

23	Add, subtract, multiply, and divide radical expressions (lesson 4.5)	11-16	199
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Choose the correct answer:

Simplify the expression.

$$\sqrt{135} + 5\sqrt{10d} - 3\sqrt{60}$$

- A. $6\sqrt{15} + 5\sqrt{10d}$
- B. $-3\sqrt{15} + 5\sqrt{10d}$
- C. $5\sqrt{15} + 5\sqrt{10d}$
- D. $9\sqrt{15} + 5\sqrt{10d}$



24 Simplify radical expressions (lesson 4.5)

5-10

199

Choose the correct answer:

Simplify the expression.

$$\sqrt[4]{64a^4b^4}$$

A. $2ab\sqrt[4]{4}$

B. $4 | ab |$

C. $2 | ab | \sqrt[4]{4}$

D. $8 | ab |$



24	Simplify radical expressions (lesson 4.5)	5-10	199
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Choose the correct answer:

Simplify the expression.

$$\sqrt[3]{-8a^2b^5}$$

A. $-2ab\sqrt[3]{b^2}$

B. $-2b\sqrt[3]{a^2b^2}$

C. $2b\sqrt[3]{a^2b^2}$

D. $-2a\sqrt[3]{b^2}$



24	Simplify radical expressions (lesson 4.5)	5-10	199
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Choose the correct answer:

Simplify the expression. $\sqrt{\frac{25}{36}t^2}$

A. $\frac{5t}{6}$

B. $\frac{5}{6} | t |$

C. $\frac{25}{36}t$

D. $\frac{5}{36} | t |$



24 Simplify radical expressions (lesson 4.5)

5-10

199

Choose the correct answer:

Simplify the expression $\sqrt[4]{\frac{192x^4}{64}}$

A. $\sqrt[4]{3x}$

B. $|x| \sqrt[4]{3}$

C. $3|x|$

D. $|x| \sqrt[4]{2}$



24 Simplify radical expressions (lesson 4.5)

5-10

199

Choose the correct answer:

What is the simplified form of the expression? $\sqrt[5]{\frac{3072h^8}{243r^5}}$

A. $\frac{4h\sqrt[5]{3h^3}}{3r}$

B. $\frac{4h\sqrt[5]{3h}}{3r^5}$

C. $\frac{2h\sqrt[5]{3h^3}}{3r}$

D. $\frac{4h^3\sqrt[5]{3h}}{3r}$



24	Simplify radical expressions (lesson 4.5)	5-10	199
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Choose the correct answer:

Simplify the expression. $\sqrt[3]{\frac{432n^{12}}{64v^6}}$

A. $\frac{3n^4}{2v^2} \sqrt[3]{2}$

B. $\frac{2n^4}{v^2} \sqrt[3]{3}$

C. $\frac{3n^4}{2v^2}$

D. $\frac{2n^4}{v^2}$



25	Solve radical equations (lesson 4.6)	1-6	207
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Choose the correct answer:

Solve the equation.

$$5\sqrt{j} = 1$$

- A. $j = \frac{1}{5}$
- B. $j = \frac{1}{25}$
- C. $j = 25$
- D. $j = 5$



25	Solve radical equations (lesson 4.6)	1-6	207
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Choose the correct answer:

Solve the equation.

$$\sqrt{b-5} = 4$$

A. $b = 11$

B. $b = 21$

C. $b = 16$

D. $b = 9$



25	Solve radical equations (lesson 4.6)	1-6	207
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Choose the correct answer:

Solve the equation.

$$\sqrt{3n + 1} = 5$$

A. $n = 6$

B. $n = 5$

C. $n = 8$

D. $n = 7$



25	Solve radical equations (lesson 4.6)	1-6	207
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Choose the correct answer:

Solve the equation.

$$2 + \sqrt{3p + 7} = 6$$

A. $p = 5$

B. $p = 3$

C. $p = 7$

D. $p = 9$

25	Solve radical equations (lesson 4.6)	1-6	207
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Choose the correct answer:

Solve the equation.

$$\sqrt{k-4} - 1 = 5$$

A. $k = 40$

B. $k = 36$

C. $k = 49$

D. $k = 25$



25	Solve radical equations (lesson 4.6)	1-6	207
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Choose the correct answer:

Solve the equation.

$$5 = \sqrt{2g - 7}$$

- A. $g = 18$
- B. $g = 16$
- C. $g = 14$
- D. $g = 12$