

ملزمة هيكل 2026



تم تحميل هذا الملف من موقع المناهج الإماراتية

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

تاريخ إضافة الملف على موقع المناهج: 2026-05-21 14:16:31

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: كرم أسعد

التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الثاني عشر المتقدم والمادة رياضيات في الفصل الثالث

تدريبات على الهيكل الوزاري 2026

1

مراجعة الدرس الثاني الحجوم والشرائح الأقراص والحلقات

2

مراجعة الدرس الأول المساحة بين المنحنيات

3

ملزمة الوحدة الخامسة التكامل

4

الامتحان الورقي النهائي لمادة الرياضيات فصل ثالث ثاني عشر متقدم 2023-2024

5

ملزمة هيكل الصف العاشر

متقدم (ريفيل)

2026-2025

Mathematics

الترم الثالث

MR. Karam

WhatsApp:



إعداد

أ / كرم أسعد

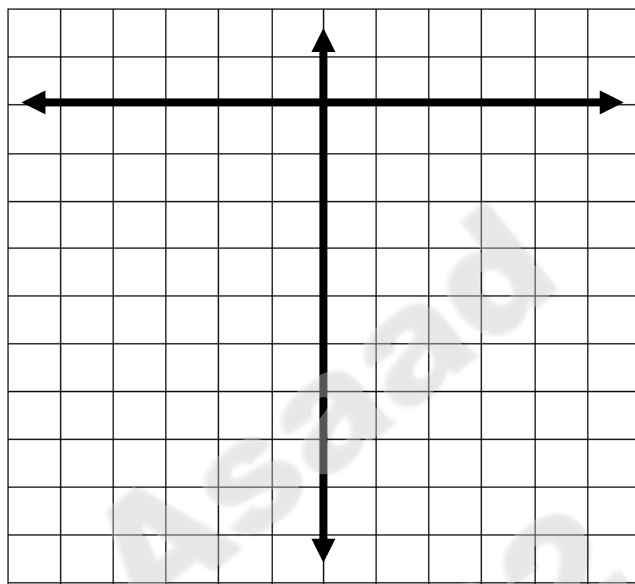
لا تتردد في التواصل معنا والاستعداد للامتحان بكل ثقة

0505308082

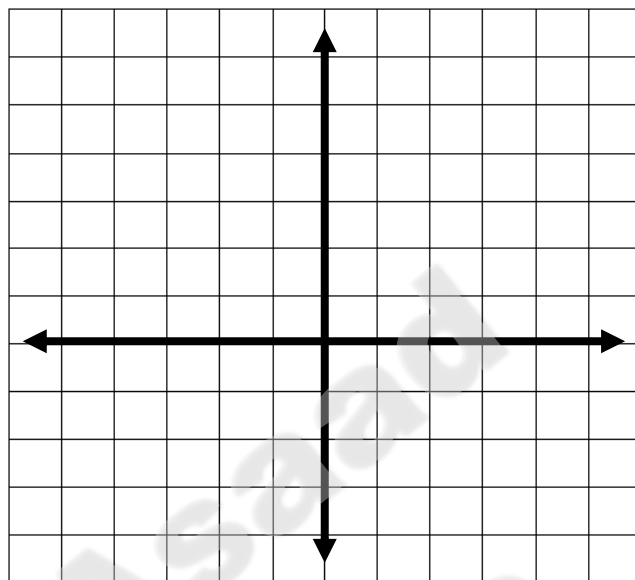
Complete parts a-c for each quadratic function.

- Find the y -intercept, the equation of the axis of symmetry, and the x -coordinate of the vertex.
- Make a table of values that includes the vertex.
- Use this information to graph the function.

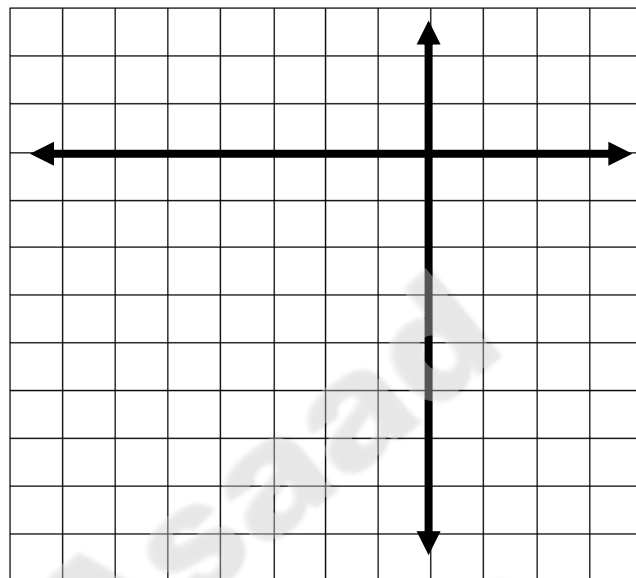
$$f(x) = 2x^2 - 6x - 9$$



$$f(x) = -3x^2 - 9x + 2$$



$$f(x) = 2x^2 + 11x$$

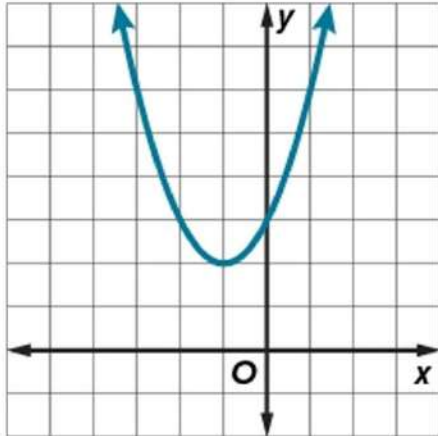


b.

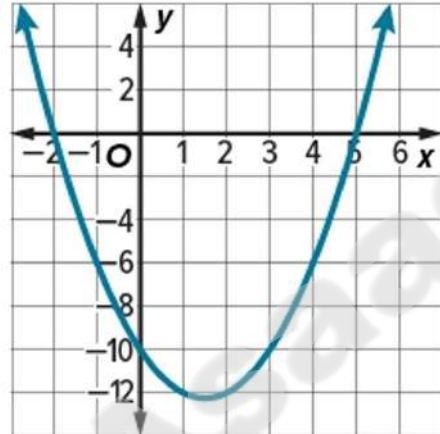
x	$f(x)$
-4	
-3	-15
-2.75	-15.125
-2.5	
-1.5	

Use the related graph of each equation to determine its solutions.

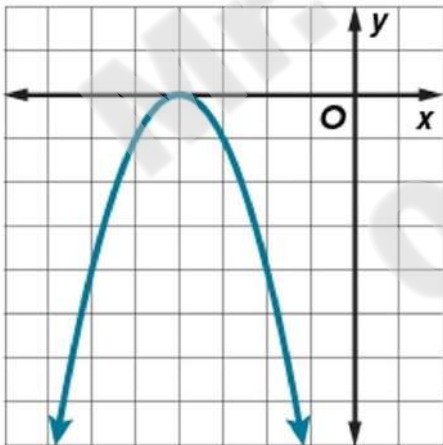
$$x^2 + 2x + 3 = 0$$



$$x^2 - 3x - 10 = 0$$



$$-x^2 - 8x - 16 = 0$$



احصل علي الشرح الكامل بمسح
الكود والتواصل مع أ / كرم أسعد

0505308082

$$\sqrt{-23} \cdot \sqrt{-46}$$

$$(3i)(-2i)(5i)$$

$$i^{11}$$

$$(4i)(-6i)^2$$

$$(6 - 3i) + (4 - 2i)$$

$$(-11 + 4i) - (1 - 5i)$$

$$(5 - 2i)(4 - i)$$

**Find the value of c that makes each trinomial a perfect square.
Then write the trinomial as the square of a binomial.**

$$x^2 + 10x + c$$

$$x^2 - 14x + c$$

$$x^2 + 5x + c$$

$$x^2 - x + c$$

**Find the value of the discriminant for each quadratic equation.
Then describe the number and type of roots for the equation.**

$$x^2 - 8x + 16 = 0$$

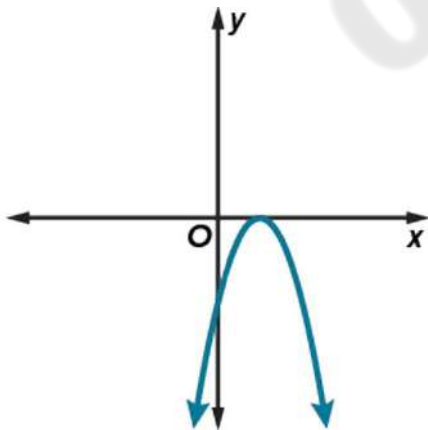
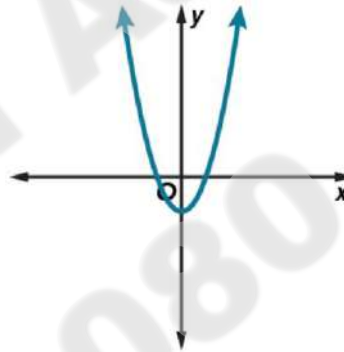
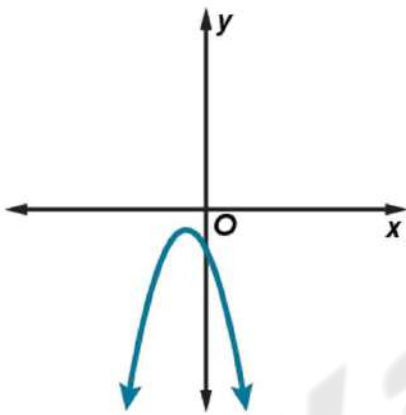
$$x^2 - 11x - 26 = 0$$

$$5x^2 - 6 = 0$$

$$x^2 + 8x + 13 = 0$$

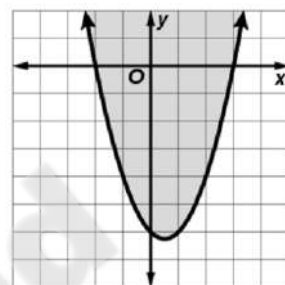
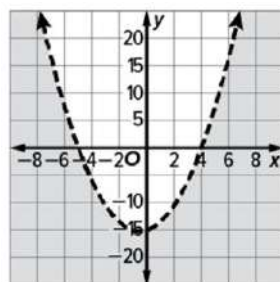
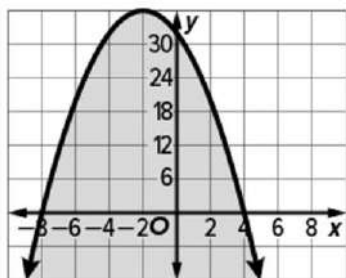
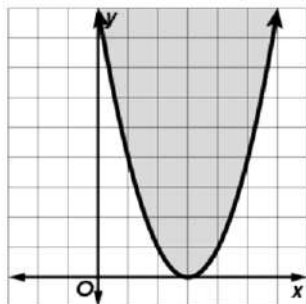
Describe the discriminant of the related equation of each graph.

Then determine the type and number of roots.

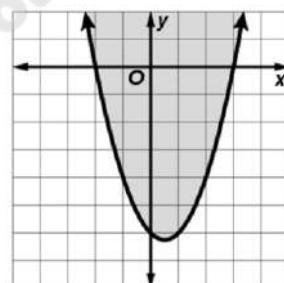
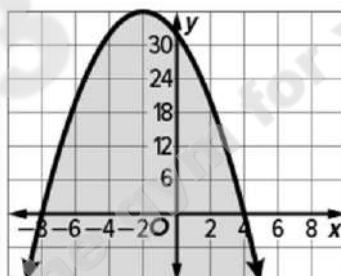
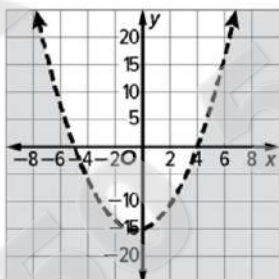
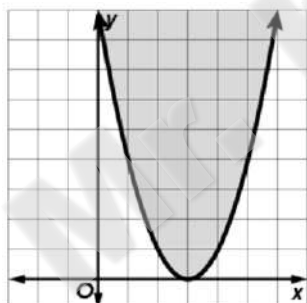


Solve each inequality by graphing.

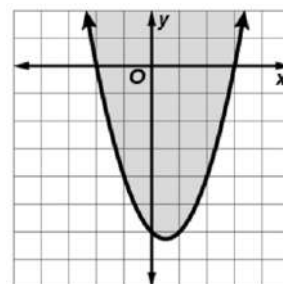
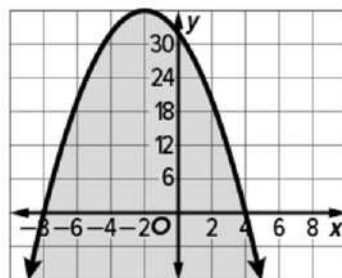
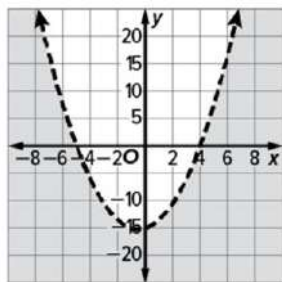
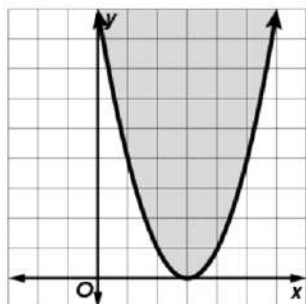
$$x^2 - 6x + 9 \leq 0$$



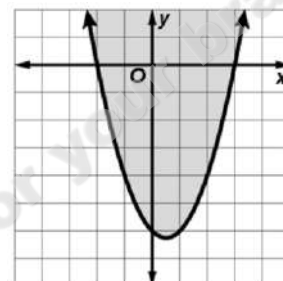
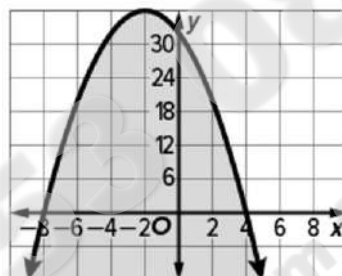
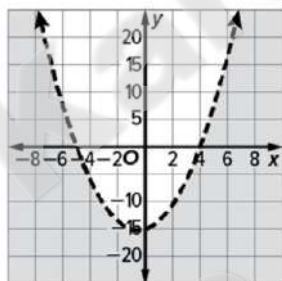
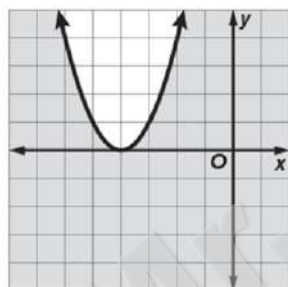
$$-x^2 - 4x + 32 \geq 0$$



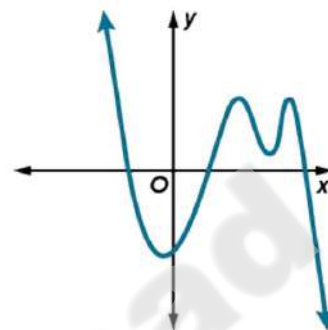
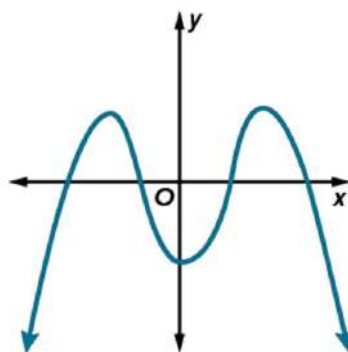
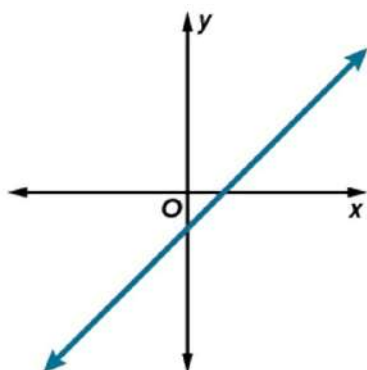
$$\frac{3}{4}x^2 + \frac{3}{4}x - 10 > 5$$



$$x^2 + 8x + 16 \geq 0$$



Use the graph to state the number of real zeros of the function.



Describe the end behavior, state the degree and leading coefficient of each polynomial.

If the function is not a polynomial, explain why.

$$f(x) = -5x^4 + 3x^2$$

$$g(x) = 2x^5 + 6x^4$$

$$g(x) = 8x^4 + 5x^5$$

$$h(x) = 9x^6 - 5x^7 + 3x^2$$



احصل علي الشرح الكامل بمسح
الكود والتواصل مع أ / كرم أسعد

0505308082

Use a table to graph each function. Then estimate the x -coordinates at which relative maxima and relative minima occur.

$$f(x) = -2x^3 + 12x^2 - 8x$$

$$f(x) = 2x^3 - 4x^2 - 3x + 4$$

$$f(x) = x^4 + 2x - 1$$

$$f(x) = x^4 + 8x^2 - 12$$

Simplify using synthetic division.

$$(3t^4 + 4t^3 - 32t^2 - 5t - 20)(t + 4)^{-1}$$

$$(3v^2 - 7v - 10)(v - 4)^{-1}$$

$$\frac{y^3 + 6}{y + 2}$$

Mr. Karam Asaad
050 53 080 82
Math is the gym for your brain

$$\frac{2x^3 - x^2 - 18x + 32}{2x - 6}$$

$$(3c^4 + 6c^3 - 2c + 4)(c + 2)^{-1}$$

Simplify each expression.

$$\frac{15y^3 + 6y^2 + 3y}{3y}$$

$$(4f^5 - 6f^4 + 12f^3 - 8f^2)(4f^2)^{-1}$$

$$(4a^2h^2 - 8a^3h + 3a^4) \div (2a^2)$$

Use Pascal's triangle to expand each binomial.

$$(x - y)^3$$

$$(a + b)^4$$



احصل علي الشرح الكامل بمسح
الكود والتواصل مع أ / كرم أسعد

0505308082

$$(y - z)^6$$

Expand each binomial.

$$(3x + 4y)^5$$

$$(8h - 3j)^4$$

REGULARITY Use Pascal's Triangle to find the fourth term in the expansion of $(2x + 7)^6$. Why is it the same as the fourth term in the expansion of $(7 + 2x)^6$?

USE A SOURCE Research the number of judges on the Supreme Court. For most rulings, a majority is needed. How many combinations of votes are possible for a majority to be reached?

STRUCTURE Find the term in $(a + b)^{12}$ where the exponent of a is 5.

PRECISION Use the first four terms of the binomial expansion of $(1 + 0.02)^{10}$ to approximate $(1.02)^{10}$. Evaluate $(1.02)^{10}$ using a calculator and compare the value to your approximation.

PERSEVERE Find the sixth term of the expansion of $(\sqrt{a} + \sqrt{b})^{12}$.

Use a graphing calculator to solve $x^4 + 3x^2 - 5 = -4x$ by graphing.

Use a graphing calculator to solve each equation by graphing. If necessary, round to the nearest hundredth.

$$\frac{2}{3}x^3 + x^2 - 5x = -9$$

$$x^3 + 1 = 4x^2$$

$$x^6 - 15 = 5x^4 - x^2$$

$$x^8 = -x^7 + 3$$

Factor completely. If the polynomial is not factorable, write *prime*.

$$8c^3 - 27d^3$$

$$64x^4 + xy^3$$

$$a^8 - a^2b^6$$

$$x^6y^3 + y^9$$

$$18x^6 + 5y^6$$



احصل علي الشرح الكامل بمسح
الكود والتواصل مع أ / كرم أسعد

0505308082

$$12ax^2 - 20cy^2 - 18bx^2 - 10ay^2 + 15by^2 + 24cx^2$$

$$a^3x^2 - 16a^3x + 64a^3 - b^3x^2 + 16b^3x - 64b^3$$

$$8x^5 - 25y^3 + 80x^4 - x^2y^3 + 200x^3 - 10xy^3$$

Solve each equation.

$$x^4 + 6x^2 + 5 = 0$$

$$4x^4 - 14x^2 + 12 = 0$$

$$4x^4 - 5x^2 - 6 = 0$$

Mr. Karam Asaad
050 53 080 82
Math is the gym for your brain

Given a polynomial and one of its factors, find the remaining factors of the polynomial.

$$x^3 + 2x^2 - x - 2; x + 1$$

$$x^3 - 6x^2 + 32; x - 4$$

State the possible number of positive real zeros, negative real zeros, and imaginary zeros of each function.

$$g(x) = 3x^3 - 4x^2 - 17x + 6$$

$$h(x) = 4x^3 - 12x^2 - x + 3$$

$$q(x) = x^4 + 7x^2 + 3x - 9$$

$$f(x) = x^4 - x^3 - 5x^2 + 6x + 1$$



احصل علي الشرح الكامل بمسح
الكود والتواصل مع أ / كرم أسعد

0505308082

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

$$f[g(1)]$$

$$g[h(0)]$$

$$g[f(-1)]$$

$$h[f(5)]$$

$$[f \circ (h \circ g)](1)$$

$$[f \circ (g \circ h)](-2)$$

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

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

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

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

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

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

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

Simplify.

$$\pm\sqrt{121x^4y^{16}}$$

$$\pm\sqrt{125a^{16}b^{36}}$$

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

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

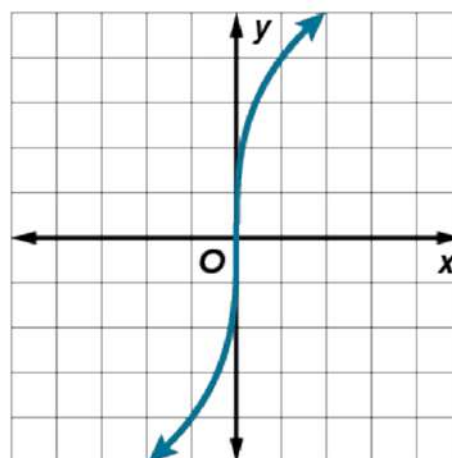
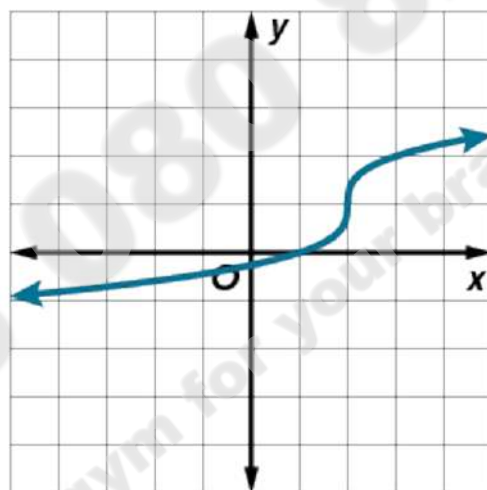
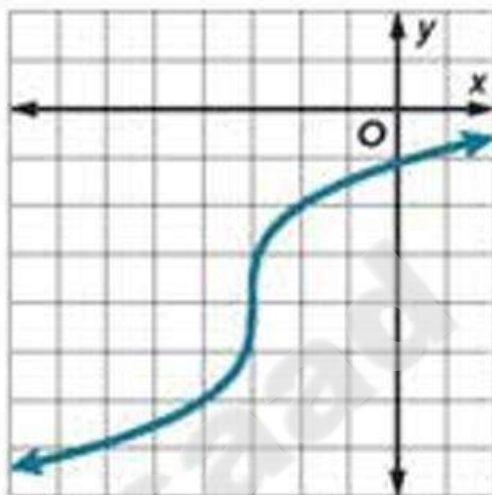
$$\sqrt[4]{16(x-3)^{12}}$$

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

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

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

Write a radical function for each graph.



Simplify.

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

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

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

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

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

$$\sqrt[3]{-8d^2f^5}$$

$$\sqrt{\frac{25}{36}r^2t}$$

$$\sqrt{\frac{192k^4}{64}}$$

$$\sqrt[5]{\frac{3072h^8}{243f^5}}$$

$$\sqrt[3]{\frac{432n^{12}}{64q^6}}$$

Solve each equation.

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

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

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

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