

□ DIAGNOSTIC TESTS

Test A Algebra

1. (a) $(-3)^4 = (-3)(-3)(-3)(-3) = 81$

(c) $3^{-4} = \frac{1}{3^4} = \frac{1}{81}$

(e) $(\frac{2}{3})^{-2} = (\frac{3}{2})^2 = \frac{9}{4}$

(b) $-3^4 = -(3)(3)(3)(3) = -81$

(d) $\frac{5^{23}}{5^{21}} = 5^{23-21} = 5^2 = 25$

(f) $16^{-3/4} = \frac{1}{16^{3/4}} = \frac{1}{(\sqrt[4]{16})^3} = \frac{1}{2^3} = \frac{1}{8}$

2. (a) Note that $\sqrt{200} = \sqrt{100 \cdot 2} = 10\sqrt{2}$ and $\sqrt{32} = \sqrt{16 \cdot 2} = 4\sqrt{2}$. Thus $\sqrt{200} - \sqrt{32} = 10\sqrt{2} - 4\sqrt{2} = 6\sqrt{2}$.

(b) $(3a^3b^3)(4ab^2)^2 = 3a^3b^3 \cdot 16a^2b^4 = 48a^5b^7$

(c) $\left(\frac{3x^{3/2}y^3}{x^2y^{-1/2}}\right)^{-2} = \left(\frac{x^{3/2}y^{-1/2}}{3x^{3/2}y^3}\right)^2 = \frac{(x^{3/2}y^{-1/2})^2}{(3x^{3/2}y^3)^2} = \frac{x^3y^{-1}}{9x^3y^6} = \frac{x^3}{9x^3y^6y} = \frac{x}{9y^7}$

3. (a) $3(x+6) + 4(2x-5) = 3x+18+8x-20 = 11x-2$

(b) $(x+3)(4x-5) = 4x^2-5x+12x-15 = 4x^2+7x-15$

(c) $(\sqrt{a} + \sqrt{b})(\sqrt{a} - \sqrt{b}) = (\sqrt{a})^2 - \sqrt{a}\sqrt{b} + \sqrt{a}\sqrt{b} - (\sqrt{b})^2 = a - b$

Or: Use the formula for the difference of two squares to see that $(\sqrt{a} + \sqrt{b})(\sqrt{a} - \sqrt{b}) = (\sqrt{a})^2 - (\sqrt{b})^2 = a - b$.

(d) $(2x+3)^2 = (2x+3)(2x+3) = 4x^2+6x+6x+9 = 4x^2+12x+9$

Note: A quicker way to expand this binomial is to use the formula $(a+b)^2 = a^2 + 2ab + b^2$ with $a = 2x$ and $b = 3$.

$(2x+3)^2 = (2x)^2 + 2(2x)(3) + 3^2 = 4x^2 + 12x + 9$

(e) See Reference Page 1 for the binomial formula $(a+b)^2 = a^2 + 2ab + b^2$. Using it, we get

$(x+2)^3 = x^3 + 3x^2(2) + 3x(2^2) + 2^3 = x^3 + 6x^2 + 12x + 8$.

4. (a) Using the difference of two squares formula, $a^2 - b^2 = (a+b)(a-b)$, we have

$4x^2 - 25 = (2x)^2 - 5^2 = (2x+5)(2x-5)$.

(b) Factoring by trial and error, we get $2x^2 + 5x - 12 = (2x-3)(x+4)$.

(c) Using factoring by grouping and the difference of two squares formula, we have

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

(d) $x^3 + 27x = x(x^2 + 27) = x(x+3)(x^2 - 3x + 9)$

This last expression was obtained using the sum of two cubes formula, $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$ with $a = x$ and $b = 3$. [See Reference Page 1 in the textbook.]

(e) The smallest exponent on x is $-\frac{1}{2}$, so we will factor out $x^{-1/2}$.

$3x^{3/2} - 6x^{1/2} + 6x^{-1/2} = 3x^{-1/2}(x^2 - 3x + 2) = 3x^{-1/2}(x-1)(x-2)$

(f) $x^2y - 4xy = xy(x^2 - 4) = xy(x-2)(x+2)$

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web aug 20 2018 the actual ladder was the drawing of the control logic an illustration of how the relays were wired together even today a lot of the conventions that led to ladders are still in use and i will use a recent example drawing to illustrate this below is a simplified drawing of a control circuit and one of our ladder logic diagram

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web may 17 2021 they can be programmed using ladder logic designed to imitate control circuit schematics figure 1 shows a proportional integral derivative pid block of the easy4 nano programmable logic controller that can compare the pressure feedback from the system to a desired setpoint

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web feb 16 2021 in simple terms all the field input and output devices are wired to the plc and the ladder logic program decides what outputs to trigger depending on the status of the input signals in basic terms plcs execute ladder logic by first reading all the input states and storing them into memory

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web mar 11 2020 during the program scan cycle the plc reads the inputs solves the ladder logic and energizes or de energizes outputs because inputs can change at any time this process repeats over and over again while the plc is in run mode the diagram below shows a model of the plc program scan cycle

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