

## □ 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)  $\frac{5^{22}}{5^{21}} = 5^{22-21} = 5^1 = 25$

(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)  $\left(\frac{3x^{3/2}y^3}{x^2y^{-1/2}}\right)^{-2} = \left(\frac{x^{2}y^{-1/2}}{3x^{3/2}y^3}\right)^2 = \frac{(x^2y^{-1/2})^2}{(3x^{3/2}y^3)^2} = \frac{x^4y^{-1}}{9x^3y^6} = \frac{x^4}{9x^3y^6y} = \frac{x}{9y^7}$

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  $x^{-1/2}$ .

$3x^{3/2} - 9x^{1/2} + 6x^{-1/2} = 3x^{-1/2}(x^2 - 3x + 2) = 3x^{-1/2}(x-1)(x-2)$

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

# Essential Calculus 2nd Edition Instructors Solutions Manual

**Liyong Dong**



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in any event in this new classification the basal angiosperms contain three superorders or five if one includes magnolianaes and ceratophyllanaes that are coordinate with the monocots also placed in their own superorder and ten additional superorders eudicots for a

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angiosperm flowering monocots dicots the angiosperms are a well characterized sharply defined group most typically angiosperms are seed plants this separates them from all other plants except the gymnosperms

*a phylogenetic classification of the angiospermae springerlink* - Apr 15 2023

abstract the synopsis of my classification of the angiospermae that was published in aliso thorne 1968 has been much modified in recent years increased knowledge about many of the families has resulted in a realignment of some of them and reorganization or deletion of some of the higher categories

**14 4 seed plants angiosperms concepts of biology openstax** - Feb 13 2023

diversity of angiosperms angiosperms are classified in a single division the anthophyta modern angiosperms appear to be a monophyletic group which means that they originate from a single ancestor

**angiosperm definition reproduction examples** - Jun 17 2023

oct 12 2023 although the taxonomy of the angiosperms is still incompletely known the latest classification system incorporates a large body of comparative data derived from studies of dna sequences it is known as the angiosperm phylogeny group iv apg iv botanical classification system