DIAGNOSTIC TESTS

Test A Algebra

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

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

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

(d)
$$\frac{5^{23}}{521} = 5^{23-21} = 5^2 = 25$$

(c)
$$(\frac{\pi}{4})^{-2} = (\frac{\pi}{4})^2 = \frac{\pi}{4}$$

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

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)
$$(3a^3b^3)(4ab^2)^2 = 3a^3b^316a^2b^4 = 48a^5b^7$$

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

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

(c) See Reference Page 1 for the binomial formula
$$(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$
. Using it, we get $(x + 2)^3 = x^3 + 3x^2(2) + 3x(2^2) + 2^3 = x^3 + 6x^2 + 12x + 8$.

(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)
$$x^4 + 27x = x(x^3 + 27) = x(x + 3)(x^2 - 3x + 9)$$

This last expression was obtained using the sum of two cubes formula, $a^a + b^b = (a + b)(a^2 - ab + b^2)$ 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)
$$x^3y - 4xy = xy(x^2 - 4) = xy(x - 2)(x + 2)$$

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