

$$(7) 2d^2 + 5d + 4 = 0$$

$$(15) \frac{16b^6c^5}{(2b^2c)^2} = \frac{16b^6c^5}{4b^4c^2} = 4b^2c^3$$

$$(16) \frac{-2a^3b^6}{24a^2b^2} = \frac{-ab^4}{12}$$

$$d = \frac{-(-5) \pm \sqrt{(-5)^2 - 4(2)(4)}}{2(2)} = \frac{5 \pm \sqrt{25 - 32}}{4} = \frac{5 \pm \sqrt{7}}{4} = \frac{5 \pm i\sqrt{7}}{4}$$

$$(8) 4x^2 - 3x - 1 = 0$$

$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(-1)(4)}}{2(4)} = \frac{3 \pm \sqrt{9 + 16}}{8} = \frac{3 \pm \sqrt{25}}{8} = \frac{3 \pm 5}{8}$$

$$\frac{3+5}{8} = \frac{8}{8} = 1$$

$$\frac{3-5}{8} = \frac{-2}{8} = -\frac{1}{4}$$

$$(9) x^2 + 2x - 7 = 0$$

$$x = \frac{-2 \pm \sqrt{2^2 - 4(1)(-7)}}{2(1)} = \frac{-2 \pm \sqrt{4 + 28}}{2} = \frac{-2 \pm \sqrt{32}}{2} = \frac{-2 \pm 4\sqrt{2}}{2} = -1 \pm 2\sqrt{2}$$

$$(10) y^2 + 9y + 9 = 0$$

$$y = \frac{-9 \pm \sqrt{9^2 - 4(1)(9)}}{2(1)} = \frac{-9 \pm \sqrt{81 - 36}}{2} = \frac{-9 \pm \sqrt{45}}{2} = \frac{-9 \pm 3\sqrt{5}}{2}$$

$$y = \frac{-9 \pm 3\sqrt{5}}{2}$$

$$(11) \frac{-27\omega^3t^7}{-3\omega^3t^{12}} = 9\omega^0t^{-5} = \frac{9}{t^5}$$

$$4r^2r^2r^2 = 4r^6$$

$$(12) \frac{(3c^2)^2(d^5)}{-45c^7d^3} = \frac{-9c^4d^5}{-45c^7d^3} = \frac{1c^{-3}d^2}{5} = \frac{d^2}{5c^3}$$

$$\frac{4r^6r^2}{r^6} = 4r^2$$

$$(13) \frac{-15r^5A^8(r^3A^2)}{45r^4A} = \frac{-15r^8A^{10}}{45r^4A} = \frac{-r^4A^9}{3}$$

$$(14) \frac{(-2r^3)^2(r^{-2})^{-1}}{(r^2)^{-3}}$$