

1. Simplify. Omit restrictions.

a. $\frac{(-xy)^7}{xy^7}$

$\frac{-x^7y^7}{xy^7} = -x^6$

b. $\frac{8a^2b - 12ab^2 + 4ab}{4ab}$

$2a - 3b + 1$

c. $(ab - 2c)(ab + 2c)$ DOTS

$(ab)^2 - (2c)^2$
 $a^2b^2 - 4c^2$

d. $(5p^3 - 6)^2$ PST

$(5p^3)^2 - 2(5p^3)(6) + (6)^2$
 $25p^6 - 60p^3 + 36$

e. $(2x - y)(x^2 - 4xy + 3y^2)$

$2x^3 - 8x^2y + 6xy^2 - x^2y + 4xy^2 - 3y^3$
 $2x^3 - 9x^2y + 10xy^2 - 3y^3$

f. $\frac{8x - 20y}{4} - \frac{18x + 45y}{9}$

$(2x - 5y) - (2x + 5y)$
 $2x - 5y - 2x - 5y$
 $-10y$

2. Factor completely. Show steps.

a. $a^3x - 9ax^3$

$ax(a^2 - 9x^2)$

$ax(a + 3x)(a - 3x)$

b. $5c^2 - 40c - 100$

$5(c^2 - 8c - 20)$

$5(c - 10)(c + 2)$

c. $a^3 + a^2 - a - 1$

$(a^3 + a^2) + (-a - 1)$

$a^2(a + 1) - (a + 1)$

$(a + 1)(a^2 - 1)$
 $(a + 1)(a + 1)(a - 1)$

d. $n^2(n^2 - 9) + 4(9 - n^2)$

$n^2(n^2 - 9) - 4(n^2 - 9)$

$(n^2 - 9)(n^2 - 4)$

$(n + 3)(n - 3)(n + 2)(n - 2)$

e. $36x^2 - 84xy + 49y^2$

$(6x - 7y)^2$

$2ab$
 $2(6x)(7y)$
 $84xy$

f. $10t^2 - 15t - 25$

$5(2t^2 - 3t - 5)$

$5(2t - 5)(t + 1)$

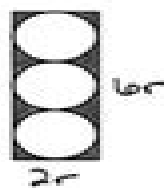
3. If r is the radius of each circle in the diagram at the right, express the area of the shaded region in factored form. Show work.

Rectangle - 3 Circles

$(2r)(6r) - 3\pi r^2$

$12r^2 - 3\pi r^2$

$3r^2(4 - \pi)$



4. Solve and write the solution set. Omit checks.

a. $(n + 3)(2n + 3) = (n + 2)^2 + (n - 2)^2$

$2n^2 + 9n + 9 = (n^2 + 4n + 4) + (n^2 - 4n + 4)$

$2n^2 + 9n + 9 = 2n^2 + 8$

$9n + 9 = 8$

$9n = -1$

$n = -\frac{1}{9}$

$\therefore \{-\frac{1}{9}\}$

b. $(x + 2)(x - 3) = 24$

$x^2 - x - 6 = 24$

$x^2 - x - 30 = 0$

$(x - 6)(x + 5) = 0$

$x = 6$ or $x = -5$

$\therefore \{-5, 6\}$

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EW Minium



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The Journal of Education Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1895 Journal of Education ,1895 **ENC Focus** ,1999 Constructing Knowledge for Teaching Secondary Mathematics Orit Zaslavsky, Peter Sullivan, 2011-04-11 Teacher education seeks to transform prospective and or practicing teachers from neophyte possibly uncritical perspectives on teaching and learning to more knowledgeable adaptable analytic insightful observant resourceful reflective and confident professionals ready to address whatever challenges teaching secondary mathematics presents This transformation occurs optimally through constructive engagement in tasks that foster knowledge for teaching secondary mathematics Ideally such tasks provide a bridge between theory and practice and challenge surprise disturb confront extend or provoke examination of alternatives drawn from the context of teaching We define tasks as the problems or activities that having been developed evaluated and refined over time are posed to teacher education participants Such participants are expected to engage in these tasks collaboratively energetically and intellectually with an open mind and an orientation to future practice The tasks might be similar to those used by classroom teachers e g the analysis of a graphing problem or idiosyncratic to teacher education e g critique of videotaped practice This edited volume includes chapters based around unifying themes of tasks used in secondary mathematics teacher education These themes reflect goals for mathematics teacher education and are closely related to various aspects of knowledge required for teaching secondary mathematics They are not based on the conventional content topics of teacher education e g decimals grouping practices but on broad goals such as adaptability identifying similarities productive disposition overcoming barriers micro simulations choosing tools and study of practice This approach is innovative and appeals both to prominent authors and to our target audiences *Primary Education* ,1894 **For the Learning of Mathematics** ,2004 **New England Journal of Education** Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1901 **Normal Instructor** ,1913 The Nature of Living Things Charles Brooke Worth, Robert Kendall Enders, 1964 *New England Journal of Education* ,1897 Whitaker's Cumulative Book List ,1964 **Normal Instructor and Teachers World** ,1913 *Los Angeles Magazine* ,2000-12 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian **The Nation** ,1996 **Popular Mechanics** ,1927-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Mathematics

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