

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.  $\frac{(ab-2c)(ab+2c)}{(ab)^2 - (2c)^2}$  DOTS  
 $\frac{a^2b^2 - 4c^2}{a^2b^2 - 4c^2}$

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

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

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

$\{a+1\} \{a^2-1\} \{a-1\}$   
 $f. 10t^2 - 15t - 25$

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

$(6x - 7y)^2$

$\frac{2ab}{2(6x)(7y)} = 84xy$

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

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

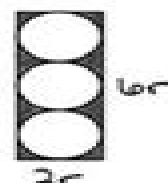
3. If  $r$  is the radius of each circle in the diagram at the right, express the area of the shaded region in factored form. Show work.

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  $x = -5$

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

# Nd Semester Algebra Review Test

**Michael Hoelscher**



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